

📍 Add: 601, 701, 901 of No.A Building and 401 of No. B Building,
Topray Solar Industrial Park, High-Tech Zone of Tianliao Community,
Yutang Street, Guangming District, Shenzhen, Guangdong, China

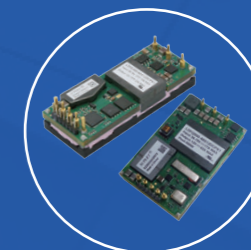
☎ +86(755)-86001502 ext. 8368/8358/8354

✉ postmaster@supletic.com

🌐 <http://www.suplet.com>

BMP BOARD MOUNTED POWER SUPPLY

(CATALOG VOL.22)



SUPLET[®]

SHENZHEN SUPLET CO.,LTD

COMPANY PROFILE

Shenzhen Suplet Co., Ltd. (Suplet for short) is a high-tech company which focuses on developing high-reliability power supplies. Suplet began with developing and manufacturing power supplies in telecommunications. Over 20 years, Suplet has expanded such many fields as telecommunication, intelligent control, data center, electric power, railway, vehicle, new energy and industrial control, benefiting from the great industrial-supporting capacity of The China Great Bay Area, aggressive abroad markets as well as sufficient talents in technology. Suplet is an excellent supplier of several well-known enterprises and establishes a long-term relation of cooperation.



S
U
P
L
E
T

Taking the market and technology as guide, Suplet has invested significant R&D resources in product development, which is committed to provide highly reliable power solutions and products for customers. Over the years' development, we own:

Facility area of 21,000m²

* 550 employees with about 135 R&D engineers, some technical backbones are from world-famous power enterprises and, in R&D practice, cultivate many engineers at various levels.

* Waveform, SMT production lines, SIP/DIP/SMD package, EMC laboratory and harsh environmental laboratories like high temp/low temp /humidity /drop / vibration

* More than 87 patents with over 30 invention patents



For customization requirements, our substantial basic accumulation is able to swiftly meet unconventional demands. Suplet has developed various power supplies, as follow:

* Rectifier for Telecommunication and Electric Power

* Monitoring and Controller Unit

* Power system with a single cabinet up to 300A

* Server Power Supply

* Board Mounted Power Supply

* Industrial Power Supply

* High Density Power Supply for LED Display

* POE Injector

* Vehicle Power Supply

* Open Frame Power Supply

* Closed and Special Power Supply against Bad Environments

* Solar &Hybrid Power system

and all kinds of customized power supplies across AC/DC, DC/DC and DC/AC, ranging from SIP/DIP/SMD package at chip level to industrial standard cabinet power systems. Together with strong technical reserves and R&D human resources, the fast feedback system provides mechanism guarantees for developing customized power supplies.

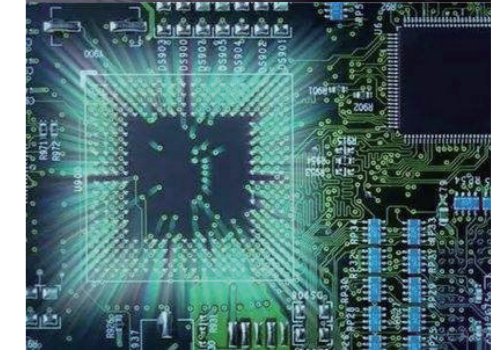
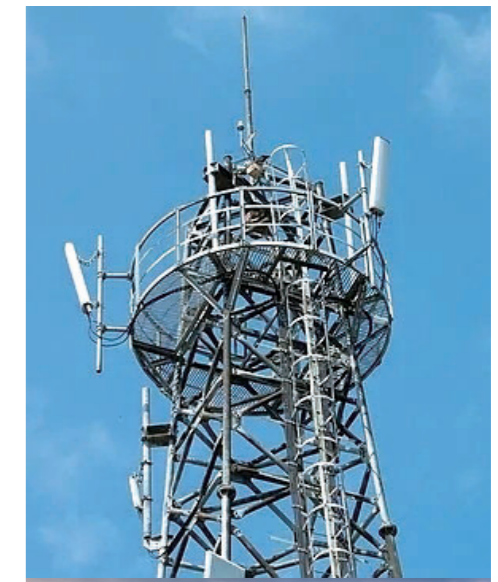
CERTIFICATION

Suplet works strictly in accordance with ISO9001 international quality management system, ISO14001 international environmental management system, ISO45001 occupational health and safety management system and TL9000-H quality system. The products have been certified by 3C/CE/TUV/UL, etc.



APPLICATIONS

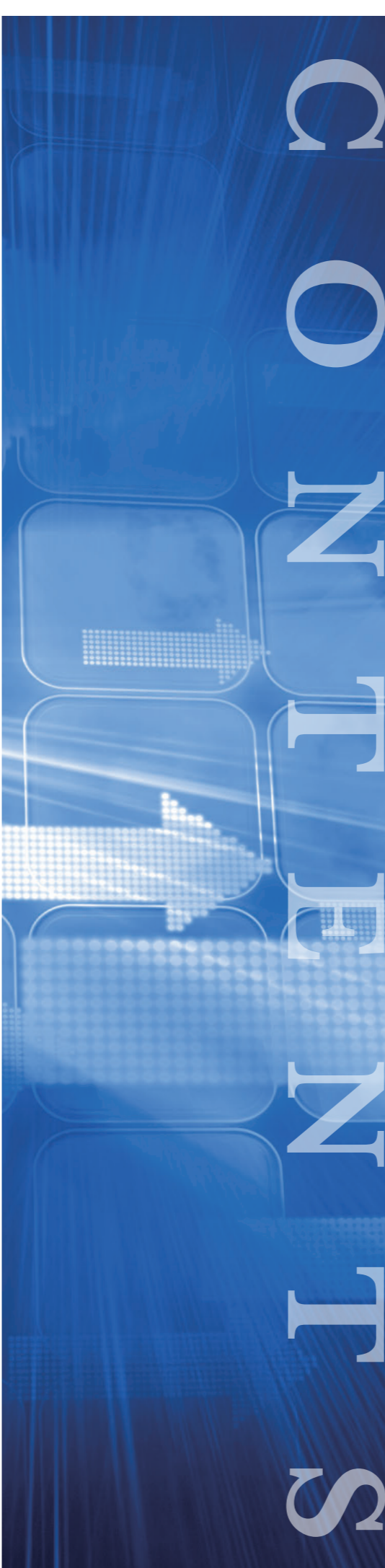
Facing to telecom, electric power, broadcast&TV, railway, instrument, security and new power energy, Suplet offers power modules and power systems.





PRODUCTS AND SERVICE

Suplet Production Lines include power module and embedded power systems. Suplet offers various solutions for global engineers, which promotes faster and more flexible design, and makes the product development easier to be completed.



CONTENTS

Full-Brick Series	01
Half-Brick Series	10
Quarter-Brick Series	14
Eighth-Brick Series	18
Sixteenth-Brick Series	26
Thirty-Second- Brick Series	30
Non-isolated Series	32
Non-standard Series	48
Naming Rules for Suplet Standard Products	56

Features

- Industry standard “Full-Brick” footprint
- Up to 80A output current
- High efficiency up to 90%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-20%~+10%Vo)
- IUVP, OVP, OTP, OCP, SCP
- Compliance with RoHS10 EU
- Directive 2011/65/EU & (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage <small>Note①</small>	155-425Vdc
Remote Control <small>Note②</small>	Negative (P)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

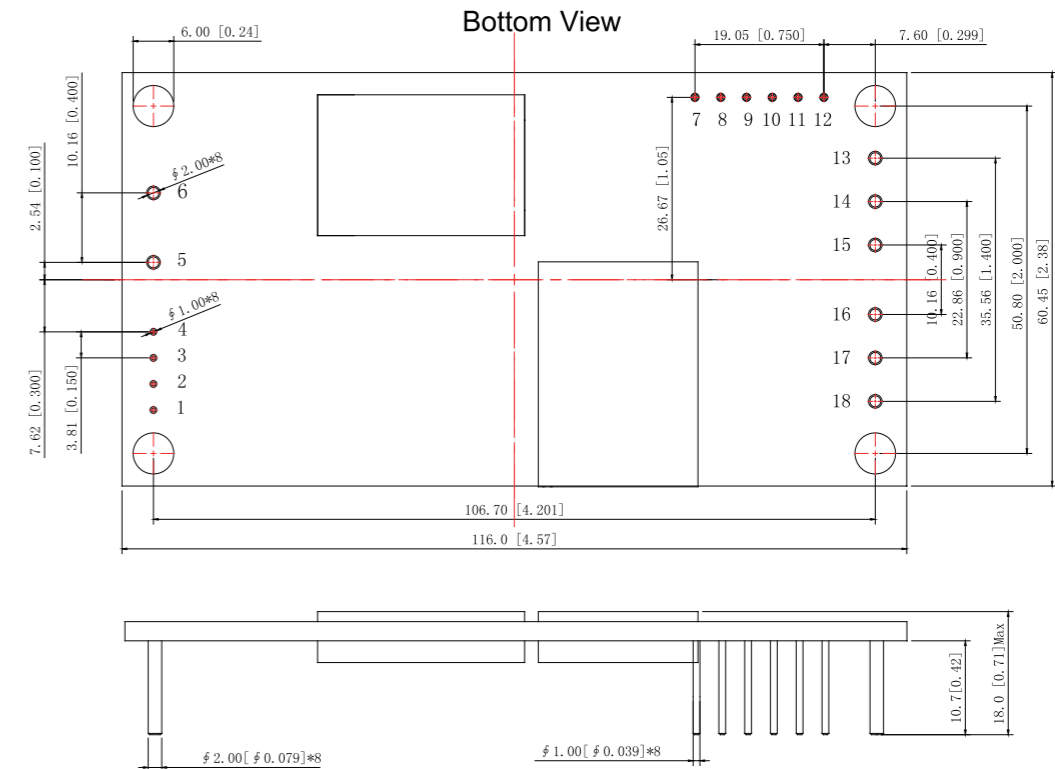
Parameter	Specifications
Output power <small>Note①</small>	400W
Output voltage <small>Note①</small>	5Vdc
Output voltage precision	±1%
Output voltage trim logic <small>Note②</small>	Positive(S), Negative(Blank)
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.1%
Load regulation	±0.1%
Dynamic response	±4.0%Vo/150us @50%-75%-50% Io(max.) di/dt=2.5A/μs
Ripple and noise	100mV

General Characteristic

Parameter	Specifications
Efficiency	90%
Operating ambient temperature	-55 C ~+100 C
Storage temperature	-65 C ~+135 C
Switching Frequency	250-350kHz
Temperature coefficient	200PPM
Isolation voltage	4250Vdc
Isolation resistance	100MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	3.2Mhours Telcordia SR-332 Issue4, 2016, 40 C
Packaging	Through-Hole

Note① Refer to order-information list in the following page for specific values of input and output
 Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	SyncIn	Synchronized input	10	Trim	Output voltage trim
2	SyncOut	Synchronized output	11	+S	Positive remote compensate
3	+REM	Positive remote control	12	-S	Negative remote compensate
4	-REM	Negative remote control	13	Vout(-)	Negative output voltage
5	Vin(+)	Positive input voltage	14	Vout(-)	Negative output voltage
6	Vin(-)	Negative input voltage	15	Vout(-)	Negative output voltage
7	AUX	Auxiliary power supply	16	Vout(+)	Positive output voltage
8	Start Sync	Start synchronization	17	Vout(+)	Positive output voltage
9	Share	Current share	18	Vout(+)	Positive output voltage

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDF400-270S5WPSZ4	155-425Vdc	5Vdc	80A	400W	90%	Full-Brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Full-brick” footprint
- Up to 20A output current
- High efficiency up to 94.5%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-50%~+15%Vo)
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	36-75Vdc
Remote Control ^{Note②}	Current control

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Input under voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
IOutput power ^{Note①}	1000W
Output voltage ^{Note①}	50Vdc
Output voltage precision	±2%
Output voltage trim logic ^{Note②}	Positive(S), Negative(Blank)
Output voltage adjustment range	-50%~+15%Vo
Line regulation	±0.5%
Load regulation	±0.2%
Dynamic response	±0.75%Vo/150us @25%-50%-25% Io(nom), 50%-75%-50% Io(nom), di/dt=2.5A/μs
Ripple and noise	150mV

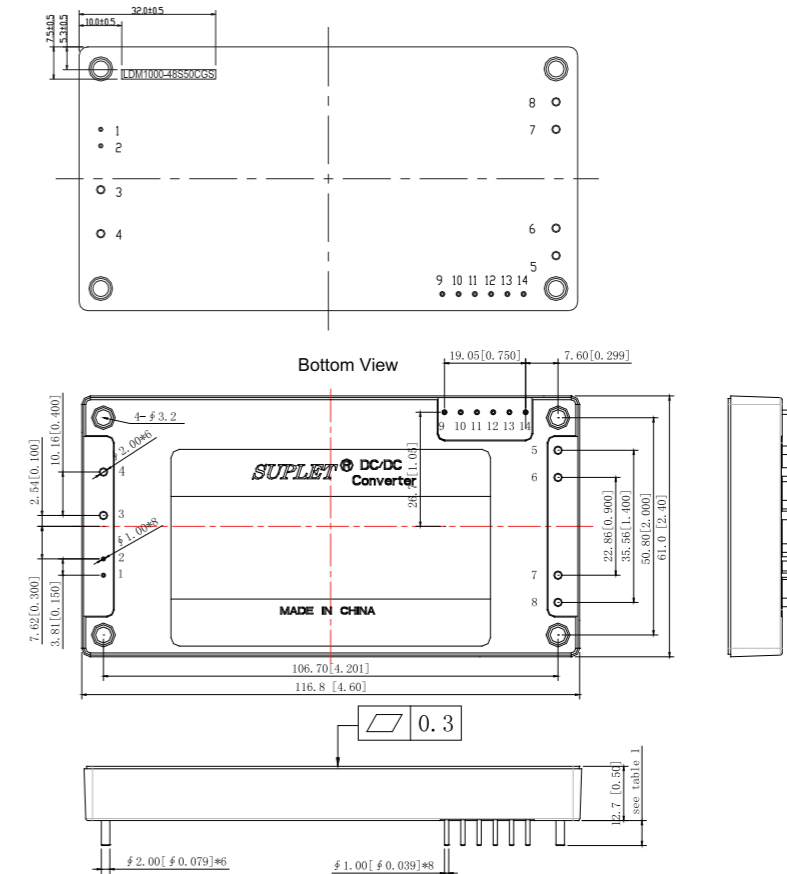
General Characteristic

Parameter	Specifications
Efficiency	94.5%
Operating ambient temperature	-40 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching Frequency	200-280kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	3.2Mhours Telcordia SR-332 Issue4, 2016, 40 C
Packaging	Through-Hole

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	+REM	Positive remote control	8	Vo1	Positive output voltage
2	-REM	Negative remote control	9	AUX	Auxiliary
3	+Vin	Positive input voltage	10	I0G	Inverter operation good signal
4	-Vin	Negative input voltage	11	NC	No connection
5	GND	Negative output voltage	12	TRIM	Output voltage trim
6	GND	Negative output voltage	13	+S	Positive remote compensation
7	Vo1	Positive output voltage	14	-S	Negative remote compensation

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDM800-48S28CGS	36-75Vdc	28Vdc	28.6A	800.8W	94%	Full brick
LDM1000-48S50CGS	36-75Vdc	50Vdc	20A	1000W	94.5%	Full brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Full-Brick” footprint
- Up to 71.5A output current
- High efficiency up to 96%
- Paralleled current sharing
- Excellent thermal performance
- Adjustable output voltage(-20%~+10%Vo)
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage <small>Note①</small>	400-800Vdc
Remote Control	Positive

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

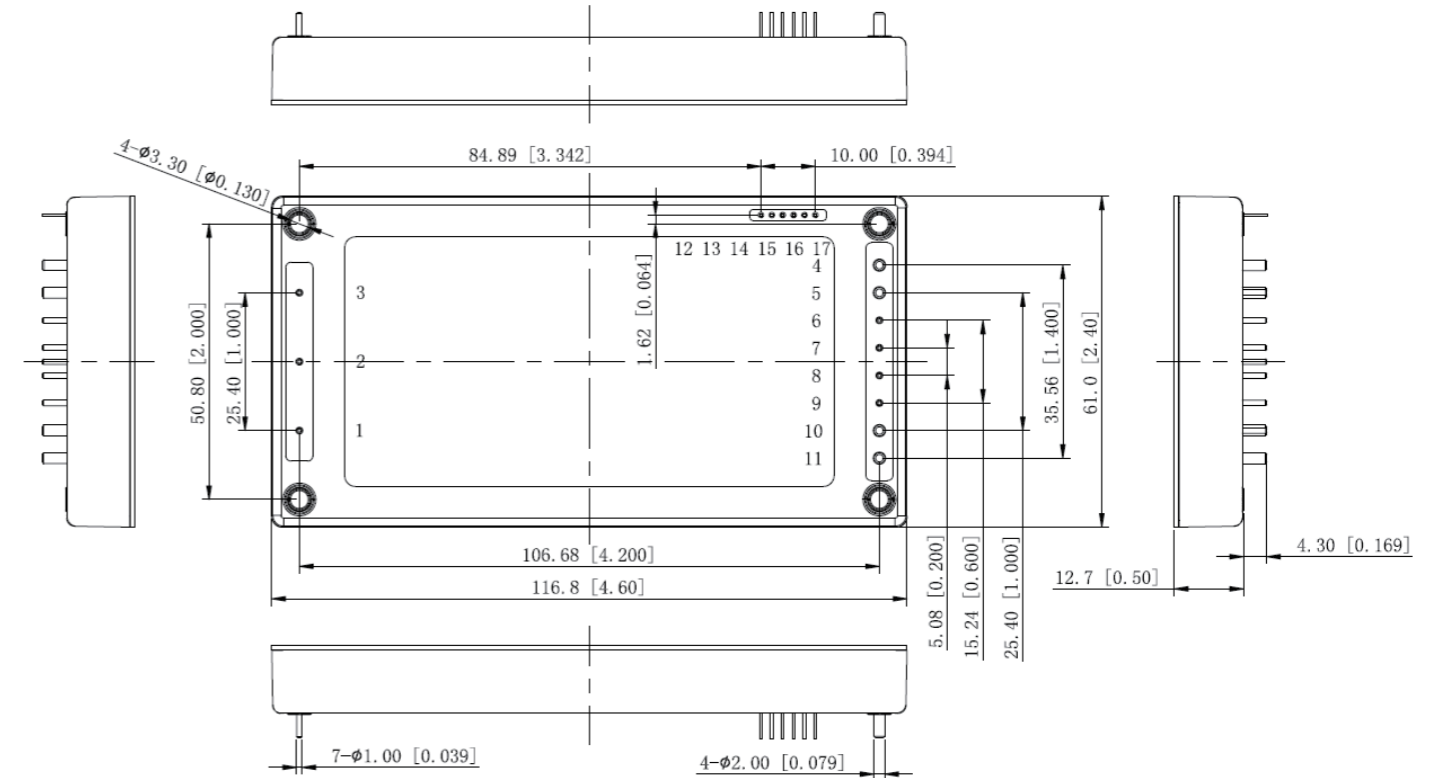
Parameter	Specifications
Output power <small>Note①</small>	2000W
Output voltage <small>Note①</small>	28Vdc
Output voltage precision	±2%
Output voltage trim logic	Positive
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.3%
Load regulation	±0.6%
Dynamic response	800mV/500us @25%-50%-25%, 50%-75%-50% Io(max.) di/dt=0.1A/μs
Ripple and noise	280mV

General Characteristic

Parameter	Specifications
Efficiency	96%
Operating ambient temperature	-55 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching Frequency	105kHz
Temperature coefficient	200PPM
Isolation voltage	2250Vdc
Isolation resistance	20MΩ (min.)
Safety	Meets IEC60950-1 &IEC/UL/EN62368-1
MTBF	0.5MHours MIL-HDBK-217 (80 C)
Packaging	Through-Hole

Note① Refer to order-information list in the following page for specific values of input and output

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	+Vin	Positive input voltage	10	+Vo	Positive output voltage
2	REM	Remote control	11	+Vo	Positive output voltage
3	-Vin	Negative input voltage	12	CTRLI	PMBus On/Off
4	-Vo	Negative output voltage	13	ALERT	PMBus Warning
5	-Vo	Negative output voltage	14	ADDR	PMBus Address
6	-S	Negative remote compensate	15	CLK	PMBus Clock
7	CS/SS	Synchronized Output Startup & Current share	16	DATA	PMBus Date
8	TRIM	Output voltage trim	17	GND	PMBus Signal Ground
9	+S	Positive remote compensate			

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDK2000-540S28CPS	400-800 Vdc	28 Vdc	71.5A	2000W	96%	Full-Brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industrial Brick, metal case box Type package
- Output power is 300W, 500W
- Output voltage options: 12V, 24V, 28V, 48V
- Universal AC input, full range
- Built-in active PFC function
- High efficiency up to 92%
- 4242VDC and reinforce isolation
- Digital communication interface with PMBus
- Meet IEC 60950-1&IEC/UL/EN 62368-1
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Parameter	Specifications
Input voltage Range	85-288VAC
Input Frequency	45-66Hz
PF	>0.95
Hold-up Time	>20ms
Protections	IUVP, IOVP, OVP, OCP, OTP, Short Circuit

Parameter	Specifications
MTBF	>1,000,000 hrs as per Telcordia SR-332, Issue 4
Operating Temperature	Refer to the order-information list
Isolation Voltage	I/P-O/P: 4242VDC
EMC	CE RE
Surge	EN55032 Class B
	IEC61000-4-5

Order Information

Model Number	Input Voltage	Output Voltage/ Output Current	Output Power	Efficiency	Physical Dimensions (L x W x H)	Baseplate Temperature
LAK300-220S12W	85-288VAC	12Vdc/25A	300W	92%	110.8x50.8x13.7mm	-40 C ~+100 C
LAK500-220S12W	85-288VAC	12Vdc/42A	500W	92%	110.8x50.8x13.7mm	-40 C ~+100 C
LAK500-220S12W-S	85-288VAC	12Vdc/42A	500W	92%	110.8x50.8x13.7mm	-40 C ~+100 C
LAK500-220S24W-S	85-288VAC	24Vdc/20.83A	500W	92%	110.8x50.8x13.7mm	-40 C ~+100 C
LAK500-220S28W-S	85-288VAC	28Vdc/17.86A	500W	92%	110.8x50.8x13.7mm	-40 C ~+100 C
LAK500-220S48W-S	85-288VAC	48Vdc/10.42A	500W	92%	110.8x50.8x13.7mm	-40 C ~+100 C

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Full brick, metal case box Type package
- Output power is 750W, 800W, 1000W
- Output voltage options: 12V, 24V, 28V, 30V, 48V, 56V
- Universal AC input voltage range
- Built-in active PFC function
- High efficiency up to 92.5%
- 4242Vdc and reinforce isolation
- Digital communication interface with PMBus
- Meet IEC 60950-1&IEC/UL/EN 62368-1
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Parameter	Specifications
Input voltage Range	85-288VAC
Input Frequency	45-66Hz
PF	>0.95
Hold-up Time	>20ms
Protections	IUVP, OVP, OCP, OTP, Short Circuit

Parameter	Specifications
MTBF	>1,200,000 hrs as per Telcordia SR-332, Issue 4
Operating Temperature	Refer to the order-information list
Isolation Voltage	I/P-O/P: 4242VDC
EMC	CE RE
Surge	EN55032 Class B
	IEC61000-4-5

Order Information

Model Number	Input Voltage	Output Voltage/ Output Current	Output Power	Efficiency	Physical Dimensions (L x W x H)	Baseplate Temperature
LAK750-220S12W	85-288VAC	12Vdc/62.5A	750W	91.5%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK800-220S24W	85-288VAC	24Vdc/33.3A	800W	92%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK800-220S28W	85-288VAC	28Vdc/28.57A	800W	92%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK800-220S30W	85-288VAC	30Vdc/26.7A	800W	92%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK800-220S48W	85-288VAC	48Vdc/16.7A	800W	92%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK800-220S56W	85-288VAC	56Vdc/14.3A	800W	92%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK1000-220S12W	85-285VAC	12Vdc/83.3A	1000W	92%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK1000-220S24W	85-285VAC	24Vdc/41.7	1000W	92.5%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK1000-220S28W	85-285VAC	28Vdc/35.7A	1000W	92.5%	116.8x61.0x13.3mm	-40 C ~+100 C
LAK1000-220S48W	85-285VAC	48Vdc/20.85A	1000W	92.5%	116.8x61.0x13.3mm	-40 C ~+100 C

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Full brick, metal case box Type package
- Output power is 1200W
- Output voltage options: 24V, 48V
- Universal AC input
- Built-in active PFC function
- High efficiency up to 94%
- 4242Vdc and reinforce isolation
- Digital communication interface with PMBus
- Meet IEC 60950-1&IEC/UL/EN 62368-1
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Parameter	Specifications	Parameter	Specifications
Input voltage Range	85-285VAC	MTBF	>1,200,000 hrs as per Telcordia SR-332, Issue 4
Input Frequency	45-66Hz	Operating Temperature	Refer to the order-information list
PF	>0.95	Isolation Voltage	I/P-O/P: 4242VDC
Hold-up Time	>20ms	EMC	CE RE
Protections	IUVP, OVP, OCP, OTP, Short Circuit	Surge	IEC61000-4-5
			EN55032 Class B

Order Information

Model Number	Input Voltage	Output Voltage/ Output Current	Output Power	Efficiency	Physical Dimensions (L x W x H)	Baseplate Temperature
LAK1200-220S24W	85-285VAC	24Vdc/50A	1200W	94%	122.0x70.0x13.3mm	-40 C ~+100 C
LAK1200-220S48W	85-285VAC	48Vdc/25A	1200W	94%	122.0x70.0x13.3mm	-40 C ~+100 C

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Half-Brick” footprint
- Up to 67A output current
- High efficiency up to 95.5%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage (-50%~+15%Vo)
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	16-36Vdc
	18-36Vdc
	36-75Vdc
	16-40Vdc
	155-425Vdc
	200-400Vdc
	230-400Vdc
	240-280Vdc
Remote Control ^{Note②}	Positive (Blank), Negative (P)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recover
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery

Output Characteristic

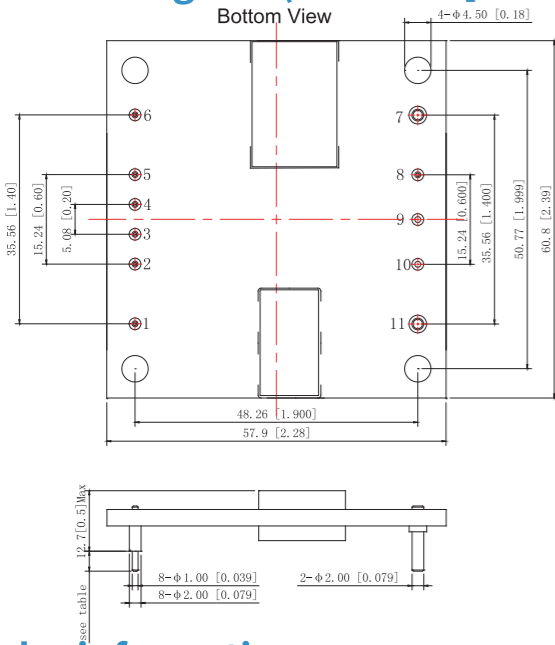
Parameter	Specifications
Output power ^{Note①}	75-1500W
Output voltage ^{Note①}	3.3/5/9/10/12/24/28/31/48/50Vdc
Output voltage precision	±3%
Output voltage trim logic ^{Note②}	Positive (S), Negative (Blank)
Output voltage adjustment range	-50%~+15%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±5.0%Vo/250us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	150mV(typ.)

General Characteristic

Parameter	Specifications
Efficiency	95.5%(max.)
Operating ambient temperature	-40 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching Frequency	150-400kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	30MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	4Mhours Telcordia SR-332 Issue4,2016,40 C

Note① Refer to order-information list in the following page for specific values of input and output Note② Refer to the production name rules.

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	NP	No pin
4	Share+	Positive current share
5	Share-	Negative current share
6	-Vin	Negative input voltage
7	GND	Negative output voltage
8	-SENSE	Negative remote compensate
9	TRIM	Output voltage trim
10	+SENSE	Positive remote compensate
11	Vo1	Positive output voltage

Order information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDFH75-48S5S	36-75Vdc	5Vdc	15A	75W	92%	Half-Brick
LDFH125-48S3V3SN	36-75Vdc	3.3Vdc	25A	82.5W	91%	Half-Brick
LDFH300-270S28WPSZ4	155-425Vdc	28Vdc	10.7A	300W	90%	Half-Brick
LDFH300-28S5Z4	16-36Vdc	5Vdc	60A	300W	90%	Half-Brick
LDFH300-300S5PSZ4	200-400Vdc	5Vdc	60A	300W	89.5%	Half-Brick
LDFH300-48S12PSZ4	36-75Vdc	12Vdc	25A	300W	93%	Half-Brick
LDFH400-270S10PSZ4	240-280Vdc	10Vdc	40A	400W	93%	Half-Brick
LDFH450-48S28CGSZ3	36-75Vdc	28Vdc	16A	448W	94%	Half-Brick
LDFH500-24S24WPSZ4	16-40Vdc	24Vdc	20.8A	499.2W	93.5%	Half-Brick
LDFH500-24S12PSZ4	18-36Vdc	12Vdc	42A	504W	93.5%	Half-Brick
LDFH500-24S28PSZ4	18-36Vdc	28Vdc	18A	504W	94%	Half-Brick
LDFH500-48S12PSZ4	36-75Vdc	12Vdc	42A	504W	93.5%	Half-Brick
LDFH600-48S12CPSN	36-75Vdc	12Vdc	50A	600W	94.5%	Half-Brick
LDFH600-48S9PSN	36-75Vdc	9Vdc	67A	600W	94%	Half-Brick
LDFH1000-270S31PNZ4	230-400Vdc	31Vdc	32.5A	1000W	95.5%	Half-Brick
LDFH700-48S28CGSZ3	36-75Vdc	28Vdc	25A	700W	96%	Half-Brick
LDFH700-48S50CGSZ3	36-75Vdc	50Vdc	14A	700W	95%	Half-Brick
LDFH1000-48S28CGSZ3	36-75Vdc	28Vdc	36A	1000W	96%	Half-Brick
LDFH1000-48S50CGSZ3	36-75Vdc	50Vdc	20A	1000W	96%	Half-Brick
LDFH1500-48S28CGSZ3	36-75Vdc	28Vdc	53.5A	1500W	96%	Half-Brick
LDFH1500-48S50CGSZ3	36-75Vdc	50Vdc	30A	1500W	96%	Half-Brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Half-Brick” footprint
- Up to 30A output current
- High efficiency up to 94.5%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-50%~+15%Vo)
- IUV, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	18-36Vdc
	36-72Vdc
	36-75Vdc
	66-154Vdc
Remote Control Note②	Positive (Blank), Negative (P)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power Note①	75-700W
Output voltage Note①	5/12/15/24/28/48/50Vdc
Output voltage precision	$\pm 3\%$
Output voltage trim logic Note②	Positive(S), Negative(Blank)
Output voltage adjustment range	-50%~+15%Vo
Line regulation	$\pm 0.2\%$
Load regulation	$\pm 0.5\%$
Dynamic response	$\pm 3.0\% \text{Vo}/250\mu\text{s}@25\%-50\%-75\% \text{Io}(\text{max.}) \text{di}/\text{dt}=2.5\text{A}/\mu\text{s}$
Ripple and noise	120mV(typ.)

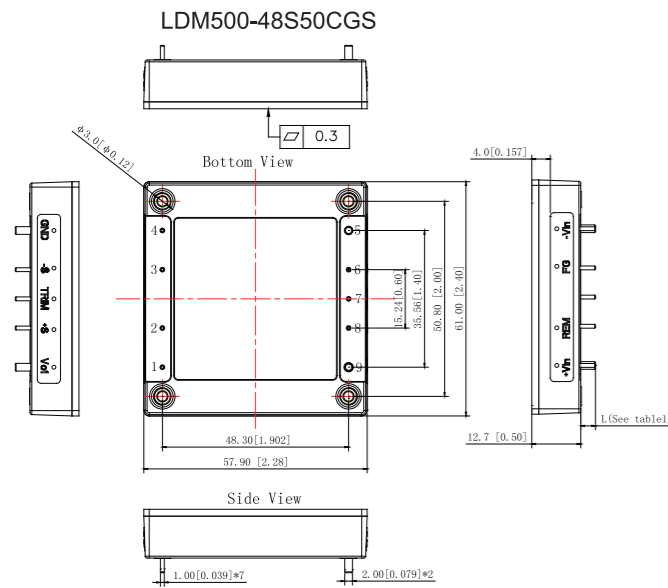
General Characteristic

Parameter	Specifications
Efficiency	94.5%(max.)
Operating ambient temperature	-40 C ~ +85 C
Storage temperature	-55 C ~ +125 C
Switching Frequency	200-450kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	30M Ω (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	4Mhours Telcordia SR-332 Issue4, 2016, 40 C
Packaging	Through-Hole

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	RE	Remote control
3	FG	Case
4	-Vin	Negative input voltage
5	GND	Negative output voltage
6	-SENSE	Negative remote compensate
7	TRIM	Output voltage trim
8	+SENSE	Positive remote compensate
9	Vo1	Positive output voltage

Order information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDG75-24S48-107H	18-36Vdc	48Vdc	1.5A	75W	89%	Half-Brick
LDG100-24S15	18-36Vdc	15Vdc	6.7A	100W	90%	Half-Brick
LDG100-24S48	18-36Vdc	48Vdc	2.1A	100W	89%	Half-Brick
LDG100-48S12-107H	36-72Vdc	12Vdc	8.3A	100W	90%	Half-Brick
LDG150-110S24-A	66-154Vdc	24Vdc	6.25A	150W	85%	Half-Brick
LDG150-48S12	36-72Vdc	12Vdc	12.5A	150W	87%	Half-Brick
LDG150-48S15S	36-72Vdc	15Vdc	10A	150W	91%	Half-Brick
LDM150-48S5	36-72Vdc	5Vdc	30A	150W	88%	Half-Brick
LDGH300-48S24PS	36-72Vdc	24Vdc	12.5A	300W	87%	Half-Brick
LDGH380-24S48S	18-36Vdc	48Vdc	8A	384W	91%	Half-Brick
LDGH450-48S28GPSZ3	36-75Vdc	28Vdc	16A	448W	94.5%	Half-Brick
LDGH450-48S48CGPS	36-75Vdc	48Vdc	9.4A	450W	94%	Half-Brick
LDM500-48S50CGS	36-75Vdc	50Vdc	10A	500W	94.5%	Half-Brick
LDM500-48S50GPS	36-75Vdc	50Vdc	10A	500W	94.5%	Half-Brick
LDM500-48S24CGS	36-75Vdc	24Vdc	21A	504W	94.5%	Half-Brick
LDGH700-48S28CGSZ3	36-75Vdc	28Vdc	25A	700W	94%	Half-Brick
LDGH700-48S28GPSZ3	36-75Vdc	28Vdc	25A	700W	94%	Half-Brick
LDGH700-48S50CGSZ3	36-75Vdc	50Vdc	14A	700W	94%	Half-Brick
LDGH700-48S50GPSZ3	36-75Vdc	50Vdc	14A	700W	94%	Half-Brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Quarter-Brick” Series
- Up to 74A output current
- High efficiency up to 96.8%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-20%~+10%Vo)
- IUVP, OVP, OTP,OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	18-36Vdc
	16-40Vdc
	18-75Vdc
	36-72Vdc
	36-75Vdc
	40-60Vdc
	48-60Vdc
49-54Vdc	
Remote Control ^{Note②}	Positive(Blank),Negative(P)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	45-1000W
Output voltage ^{Note①}	1.2/1.5/1.8/3.3/5/10.8/12/24/28/50Vdc
Output voltage precision	±2%
Output voltage trim logic ^{Note②}	Positive (S), Negative (Blank)
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±3.0%Vo/250us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	150mV(typ.)

General Characteristic

Parameter	Specifications
Efficiency	96.8%(max.)
Operating ambient temperature	-40 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching Frequency	105-400kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	30MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	8Mhours Telcordia SR-332 Issue4, 2016, 40 C
Packaging	Through-Hole

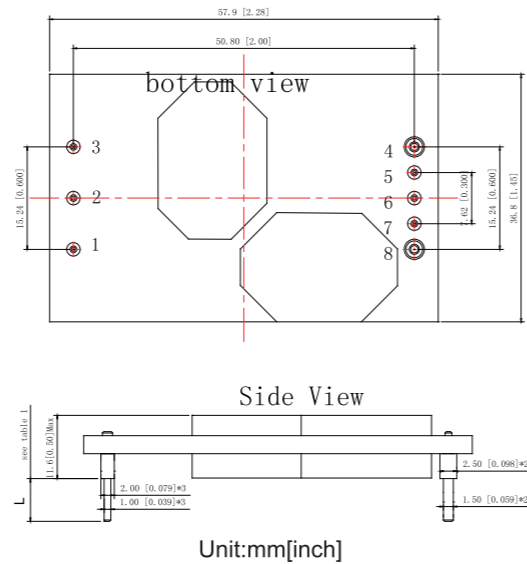
Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Order information (without baseplate)

MPN	Input voltage	Output Voltage	Output current	Output Power	Efficiency	Physical Dimensions
LDFQ45-48D3V3-1V2PS	36-75Vdc	3.3Vdc	8A	45W	83%	Quarter-Brick
		1.2Vdc	13A			
LDFQ45-48D3V3-1V5PS	36-75Vdc	3.3Vdc	8A	45W	83%	Quarter-Brick
		1.5Vdc	12A			
LDFQ45-48D3V3-1V8PS	36-75Vdc	3.3Vdc	8A	45W	85%	Quarter-Brick
		1.8Vdc	10A			
LDFQ50-24S5	18-36Vdc	5Vdc	10A	50W	90%	Quarter-Brick
LDFQ50-24S5C	18-36Vdc	5Vdc	10A	50W	90%	Quarter-Brick
LDFQ50-24S5PSZ4	18-36Vdc	5Vdc	10A	50W	90%	Quarter-Brick
LDFQ50-24S5Z4	18-36Vdc	5Vdc	10A	50W	90%	Quarter-Brick
LDFQ65-48D12P	36-75Vdc	±12Vdc	2.7A	65W	87%	Quarter-Brick
LDFQ100-48S3V3PS	36-75Vdc	3.3Vdc	20A	66W	92%	Quarter-Brick
LDFQ75-24S5Z4	18-36Vdc	5Vdc	15A	75W	91%	Quarter-Brick
LDFQ150-48S3V3	36-75Vdc	3.3Vdc	30A	99W	91%	Quarter-Brick
LDFQ100-48S5S	36-72Vdc	5Vdc	20A	100W	91%	Quarter-Brick
LDFQ175-48S3V3PS	36-75Vdc	3.3Vdc	35A	115.5W	91%	Quarter-Brick
LDFQ120-28S24PSZ4	16-40Vdc	24Vdc	5A	120W	90%	Quarter-Brick
LDFQ200-48S3V3PSN	36-75Vdc	3.3Vdc	40A	132W	92.7%	Quarter-Brick
LDFQ150-24S15PSZ4	18-36Vdc	15Vdc	10A	150W	91%	Quarter-Brick
LDFQ150-24S5PSZ4	18-40Vdc	5Vdc	30A	150W	92%	Quarter-Brick
LDFQ150-48S12GPS	36-75Vdc	12Vdc	12.5A	150W	94.5%	Quarter-Brick
LDFQ250-48S3V3PSN	36-75Vdc	3.3Vdc	50A	165W	91.2%	Quarter-Brick
LDFQ200-48S12WPS	18-75Vdc	12Vdc	17A	204W	94%	Quarter-Brick
LDFQ230-48S12WPS	18-75Vdc	12Vdc	19.5A	230W	94%	Quarter-Brick
LDFQ300-48S12GPNZ2	36-75Vdc	12Vdc	25A	300W	94.5%	Quarter-Brick
LDFQ300-48S12GPS	36-75Vdc	12Vdc	25A	300W	94.5%	Quarter-Brick
LDFQ300-48S12GPSZ1	36-75Vdc	12Vdc	25A	300W	94%	Quarter-Brick

Outline diagram(without baseplate)



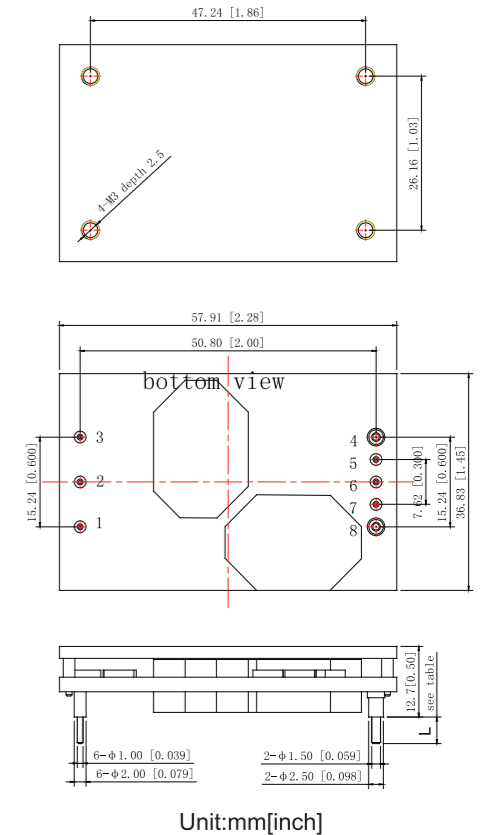
Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	-Vin	Negative input voltage
4	GND	Negative output voltage
5	-SENSE	Negative remote compensation
6	TRIM	Output voltage trim
7	+SENSE	Positive remote compensation
8	Vo1	Positive output voltage

Order information (with baseplate)

MPN	Input voltage	Output Voltage	Output current	Output Power	Efficiency	Physical Dimensions
LDFQ75-48S5CPS	36-75Vdc	5Vdc	15A	75W	92%	Quarter-Brick
LDFQ150-48S3V3WCPS	18-75Vdc	3.3Vdc	30A	99W	90%	Quarter-Brick
LDFQ100-24S12CS	18-36Vdc	12Vdc	8.33A	100W	93%	Quarter-Brick
LDFQ100-24S5CPS	18-36Vdc	5Vdc	20A	100W	90%	Quarter-Brick
LDFQ100-48S5CPS	36-75Vdc	5Vdc	20A	100W	91%	Quarter-Brick
LDFQ100-24S5CS	18-36Vdc	5Vdc	20A	100W	90%	Quarter-Brick
LDFQ150-24S5CPS	18-40Vdc	5Vdc	30A	150W	92%	Quarter-Brick
LDFQ150-48S12CGPS	36-75Vdc	12Vdc	12.5A	150W	94.5%	Quarter-Brick
LDFQ150-48S12CGS	36-75Vdc	12Vdc	12.5A	150W	94.5%	Quarter-Brick
LDFQ150-48S5CPS	36-75Vdc	5Vdc	30A	150W	91%	Quarter-Brick
LDFQ200-48S12CPS	36-75Vdc	12Vdc	17A	200W	93%	Quarter-Brick
LDFQ200-48S12CPSZ2	36-75Vdc	12Vdc	17A	200W	93%	Quarter-Brick
LDFQ200-48S12WCPS	18-75Vdc	12Vdc	17A	204W	94%	Quarter-Brick
LDFQ210-48S42CPS	49-54Vdc	20-42Vdc	5A	210W	94%	Quarter-Brick
		5-5.5Vdc	0.2A			
LDFQ230-48S12WCS	18-75Vdc	12Vdc	19.5A	230W	94%	Quarter-Brick
LDFQ250-48S5CGS	36-75Vdc	5Vdc	50A	250W	94%	Quarter-Brick
LDFQ300-48S5CGPSZ2	36-75Vdc	5Vdc	60A	300W	93.5%	Quarter-Brick
LDFQ300-48S5CGS	36-75Vdc	5Vdc	60A	300W	93.5%	Quarter-Brick
LDFQ420-48S12CS	36-75Vdc	12Vdc	35A	420W	95%	Quarter-Brick
LDFQ500-48S12CS	36-75Vdc	12Vdc	42A	500W	95.8%	Quarter-Brick
LDFQ500-48S50CS	36-75Vdc	50Vdc	10A	500W	94.5%	Quarter-Brick
LDFQ500-48S28CPS	36-75Vdc	28Vdc	18A	504W	95%	Quarter-Brick
LDFQ500-48S28CS	36-75Vdc	28Vdc	18A	504W	95%	Quarter-Brick
LDFQ600-48S12CPSN	36-75Vdc	12Vdc	50A	600W	95.5%	Quarter-Brick
LDFQ600-48S12CS	36-75Vdc	12Vdc	50A	600W	96.3%	Quarter-Brick
LDFQ700-48S28CS	36-75Vdc	28Vdc	25A	700W	96%	Quarter-Brick
LDFQ800-48S12CPX1	48-60Vdc	10.8Vdc	74A	800W	96.8%	Quarter-Brick
LDFQ800-48S12CPX1Z2	48-60Vdc	10.8Vdc	74A	800W	96.8%	Quarter-Brick
LDFQ800-48S12CPX2	48-60Vdc	10.8Vdc	74A	800W	96.8%	Quarter-Brick

Outline diagram(without baseplate)



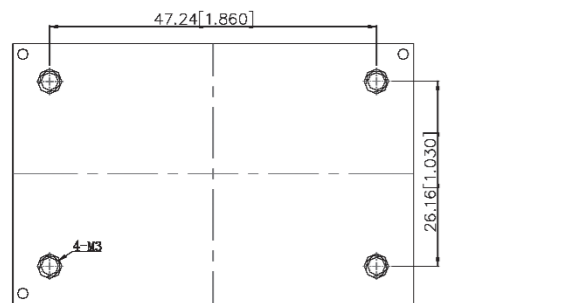
Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	-Vin	Negative input voltage
4	GND	Negative output voltage
5	-SENSE	Negative remote compensation
6	TRIM	Output voltage trim
7	+SENSE	Positive remote compensation
8	Vo1	Positive output voltage

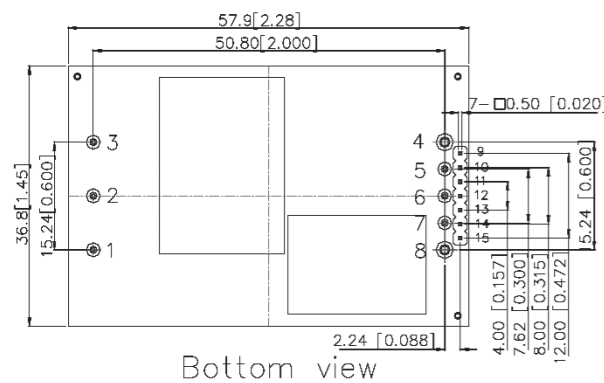
Order information(With PMBus)

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDFQ900-48S12DCPX1	36-75Vdc	12Vdc	75A	900W	96%	Quarter-Brick
LDFQ1000-54S12DCPX1	40-60Vdc	12Vdc	83.3A	1000W	95%	Quarter-Brick

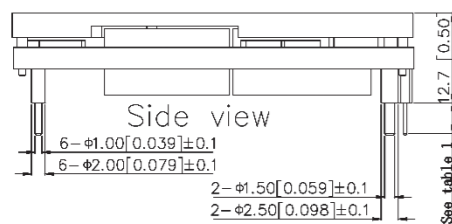
Outline diagram



Top view



Bottom view



Side view

Unit:mm[inch]

Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	-Vin	Negative input voltage
4	GND	Negative output voltage
5	-S	Negative remote compensation
6	TRIM	Output voltage trim
7	+S	Positive remote compensation
8	+Vo1	Positive output voltage
9	PG	Power good
10	SIG_GND	Signal GND
11	DATA	PMBus data
12	SMBALERT#	PMBus Alarm
13	CLOCK	PMBus Clock
14	AD01	PMBus Address Pinstrap 01
15	AD00	PMBus Address Pinstrap 00

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Eighth-Brick” footprint
- Up to 40A output current
- High efficiency up to 94.5%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage (-20%~+10%Vo)
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	36-75Vdc
Remote Control ^{Note②}	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	200-300W
Output voltage ^{Note①}	5/12Vdc
Output voltage precision	±2%
Output voltage trim logic ^{Note②}	Positive(P), Negative(N)
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±5%Vo/250us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	100mV(typ.)

General Characteristic

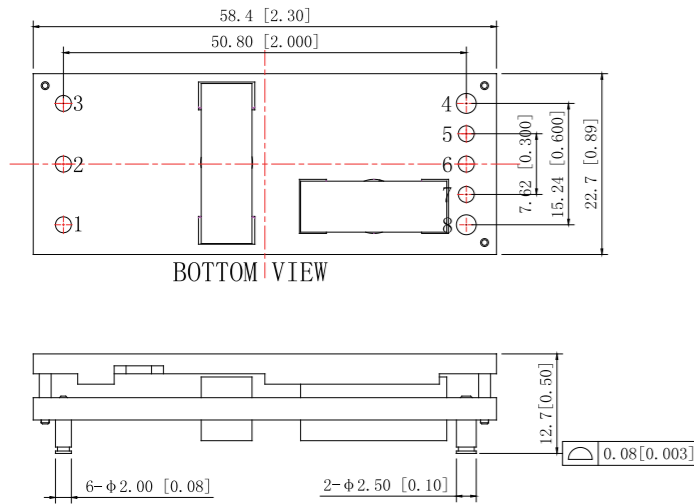
Parameter	Specifications
Efficiency	94.5%(max.)
Operating ambient temperature	-40 C-+85 C
Storage temperature	-55 C-+125 C
Switching Frequency	150-210kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	8Mhours Telcordia SR332 Issue 4,2016, 40 C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

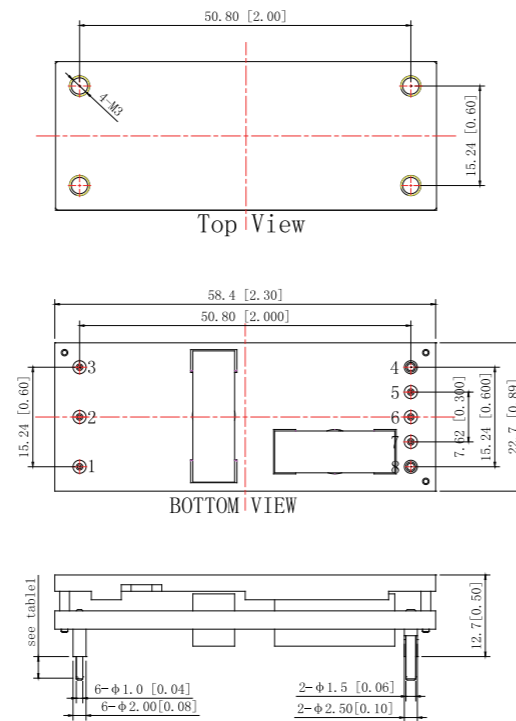
Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])

Outline diagram (Surface mounting version)



Outline diagram (Through-hole mounting version)



Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	+Vin	Positive input voltage	5	-SENSE	Negative remote compensate
2	REM	Remote control	6	TRIM	Output voltage trim
3	-Vin	Negative input voltage	7	+SENSE	Positive remote compensate
4	GND	Negative output voltage	8	Vo1	Positive output voltage

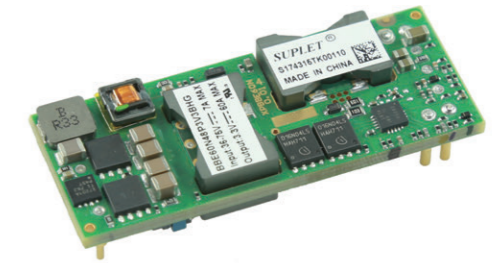
Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
ABE40N48P5BHG	36-75Vdc	5V	40A	200W	94.2%	Eighth-Brick
ABE40N48P5CHG	36-75Vdc	5V	40A	200W	94.2%	Eighth-Brick
ABE40P48P5AHG	36-75Vdc	5V	40A	200W	94.2%	Eighth-Brick
ABE20N48P12CHG	36-75Vdc	12V	20A	240W	94%	Eighth-Brick
ABE20N48S12BHG	36-75Vdc	12V	20A	240W	94%	Eighth-Brick
ABE25P48S12BTG	36-75Vdc	12V	25A	300W	94.5%	Eighth-Brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Eighth-Brick” footprint
- Up to 40A output current
- High efficiency up to 94.5%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage (-20%~+10%Vo)
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	36-75Vdc
	18-60Vdc
Remote Control Note②	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power Note①	72-300W
Output voltage Note①	2.5/3.3/5/12Vdc
Output voltage precision	±2%
Output voltage trim logic Note②	Positive(P), Negative(N)
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±5%Vo/250us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	100mV(typ.)

General Characteristic

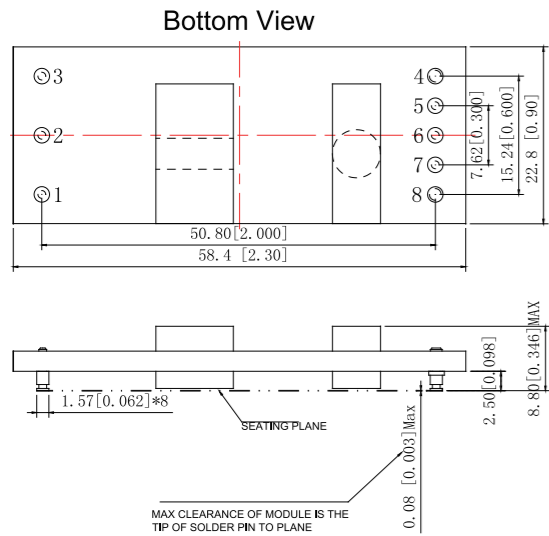
Parameter	Specifications
Efficiency	94.5%(max.)
Operating ambient temperature	-40 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching Frequency	110-420kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	8Mhours Telcordia SR332 Issue 4,2016, 40 C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

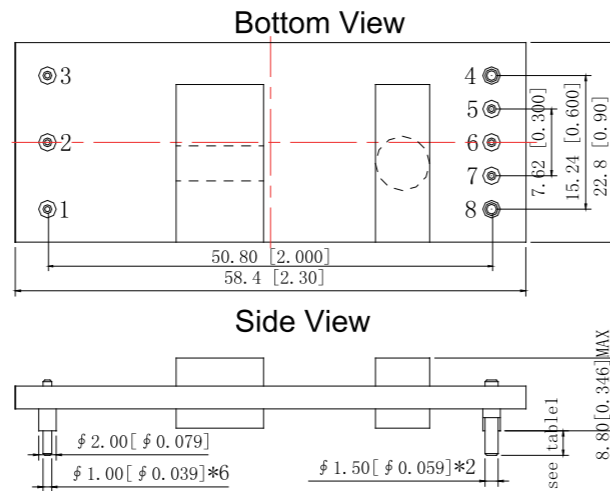
Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])

Outline diagram (Surface mounting version)



Outline diagram (Through-hole mounting version)



Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	+Vin	Positive input voltage	5	-SENSE	Negative remote compensate
2	REM	Remote control	6	TRIM	Output voltage trim
3	-Vin	Negative input voltage	7	+SENSE	Positive remote compensate
4	GND	Negative output voltage	8	Vo1	Positive output voltage

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
BBE6N48P12GSG	36-75Vdc	12Vdc	6A	72W	92.5%	1/8 Brick
BBE15N48P5GSG	36-75Vdc	5Vdc	15A	75W	92%	1/8 Brick
BBE20N48P5GSG	36-75Vdc	5Vdc	20A	100W	92%	1/8 Brick
BBE35N48P3V3BHGW	18-60Vdc	3.3Vdc	35A	115.5W	92.5%	1/8 Brick
BBE30N48P5CHG	36-75Vdc	5Vdc	30A	150W	92%	1/8 Brick
BBE60N48P3V3BHG	36-75Vdc	3.3Vdc	60A	198W	93.5%	1/8 Brick
BBE60N48P2V5BHG	36-75Vdc	2.5 Vdc	60A	150	92%	1/8 Brick
BBE40N48P5GSG	36-75Vdc	5Vdc	40A	200W	94.2%	1/8 Brick
BBE20N48P12BHG	36-75Vdc	12Vdc	20A	240W	94%	1/8 Brick
BBE25N48S12CTGB	36-75Vdc	12Vdc	25A	300W	94.5%	1/8 Brick
BBE25N48S12BHG	36-75Vdc	12Vdc	25	300W	94.5%	1/8 Brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Eighth-Brick” footprint
- Up to 30A output current
- High efficiency up to 95%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-20%~+10%Vo)
- IUVP, OVP, OTP,OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	36-75Vdc
	18-60Vdc
	18-36Vdc
	18-75Vdc
	-57--26Vdc
Remote Control Note②	Positive(Blank),Negative(P)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery
Input under voltage protection	Yes

Output Characteristic

Parameter	Specifications
Output power Note①	33-300W
Output voltage Note①	3.3/5/6/12/24/28/50Vdc
Output voltage precision	±2%
Output voltage trim Logic Note②	Positive(S), Negative(Blank)
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±5%Vo/250us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	100mV(typ.)

General Characteristic

Parameter	Specifications
Efficiency	94%(max.)
Operating ambient temperature	-40°C-+85°C
Storage temperature	-55°C-+125°C
Switching Frequency	202-390kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	8Mhours Telcordia SR332 Issue 4,2016, 40°C

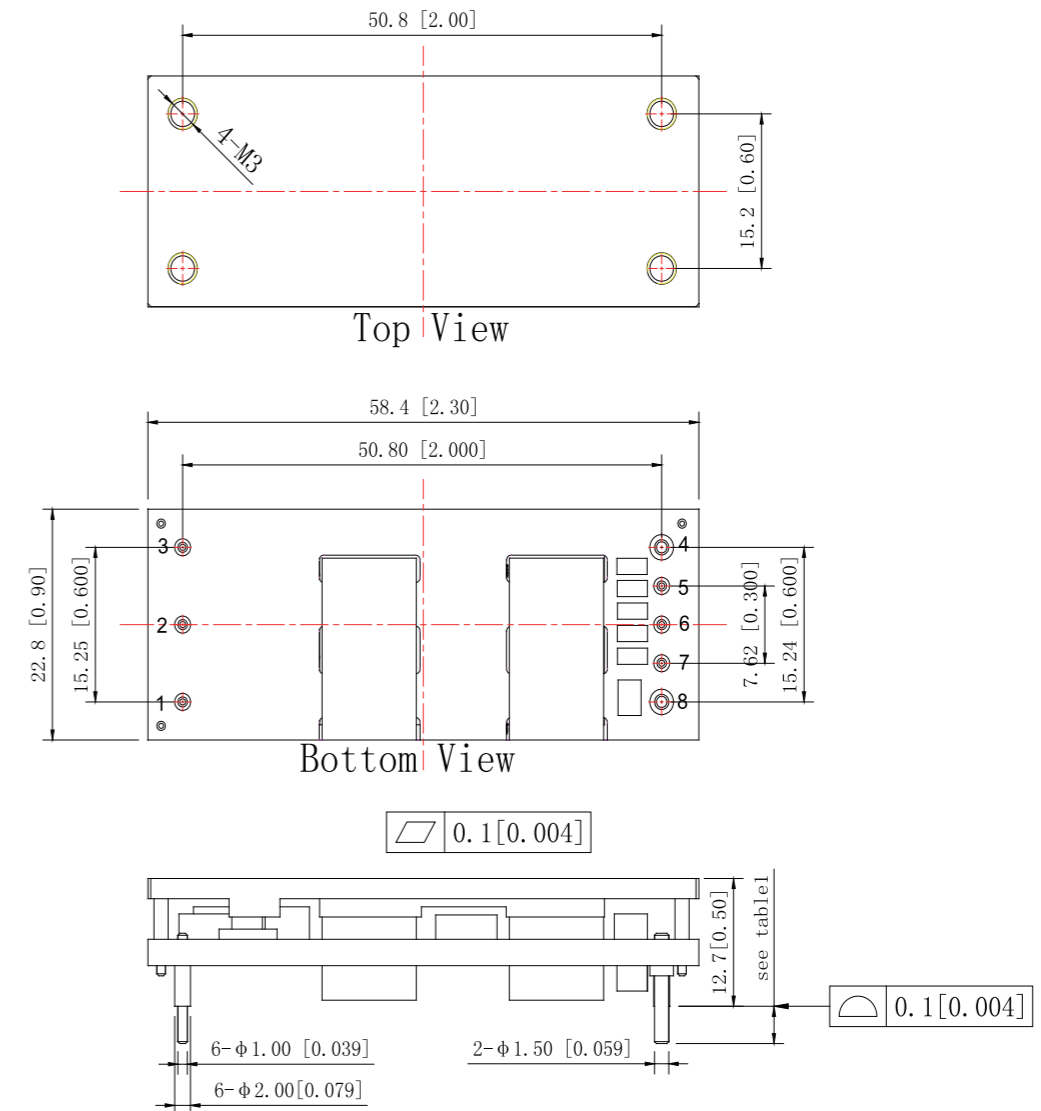
Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency
LDFE50-48S3V3PS	36-75Vdc	3.3Vdc	10A	33	90%
LDFE75-48S3V3PS	36-75Vdc	3.3Vdc	15A	49.5	92%
LDFE50-48S12CPS	36-72Vdc	12Vdc	4A	50	89%
LDFE50-48S12PS	36-75Vdc	12Vdc	4A	50	91%
LDFE50-48S12WPS	18-60Vdc	12Vdc	4A	50	89.5%
LDFE50-48S15PS	36-72Vdc	15Vdc	3.5A	50	91%
LDFE50-48S5CS	36-75Vdc	5Vdc	10A	50	92%
LDFE50-48S5PS	36-75Vdc	5Vdc	10A	50	92%
LDFE50-48S5PSZ2	36-75Vdc	5Vdc	10A	50	92%
LDFE50-48S5PSZ2	36-75Vdc	5Vdc	10A	50	92%
LDFE100-48S3V3PS	36-75Vdc	3.3Vdc	20A	66	92%
LDFE100-48S3V3S	36-75Vdc	3.3Vdc	20A	66	92%
LDFE75-48S12CPS	36-75Vdc	12Vdc	6A	72	92.5%
LDFE75-48S12PS	36-75Vdc	12Vdc	6A	72	92.5%
LDFE75-48S12S	36-75Vdc	12Vdc	6A	72	92.5%
LDFE75-24S48PS	18-36Vdc	48Vdc	1.56A	75	91%
LDFE75-24S6CPN	18-36Vdc	6Vdc	12.5A	75	92%
LDFE75-48S12WCPS	18-75Vdc	12Vdc	6.25A	75	92%
LDFE75-48S12WCPSZ2	18-75Vdc	12Vdc	6.25A	75	92%
LDFE75-48S24CPS	36-75Vdc	24Vdc	3.125A	75	92%
LDFE75-48S5CPS	36-75Vdc	5Vdc	15A	75	92%
LDFE75-48S5PS	36-75Vdc	5Vdc	15A	75	92%
LDFE75-48S5PS	36-75Vdc	5Vdc	15A	75	90%
LDFE75-48S5S	36-75Vdc	5Vdc	15A	75	92%
LDFE75-48S32CPS	-57--26Vdc	32Vdc	2.5A	80	90%
LDFE100-48S48CPS	36-75Vdc	48Vdc	2A	96	92%
LDFE100-48S48PS	36-75Vdc	48Vdc	2A	96	92%
LDFE150-48S3V3CS	36-75Vdc	3.3Vdc	30A	99	92%
LDFE150-48S3V3PS	36-75Vdc	3.3Vdc	30A	99	91.4%
LDFE100-48S5CPS	36-75Vdc	5Vdc	20A	100	92%
LDFE100-48S5PS	36-75Vdc	5Vdc	20A	100	92%
LDFE120-48S12CPS	36-75Vdc	12Vdc	10A	120	92.5%
LDFE120-48S12PS	36-75Vdc	12Vdc	10A	120	92.5%
LDFE150-48S5PS	36-75Vdc	5Vdc	30A	150	92%
LDFE300-48S28CS	36-75Vdc	28Vdc	11A	300	94%
LDFE300-48S50CS	36-75Vdc	50Vdc	6A	300	93.5%

Outline Diagram (Unit:mm[inch])



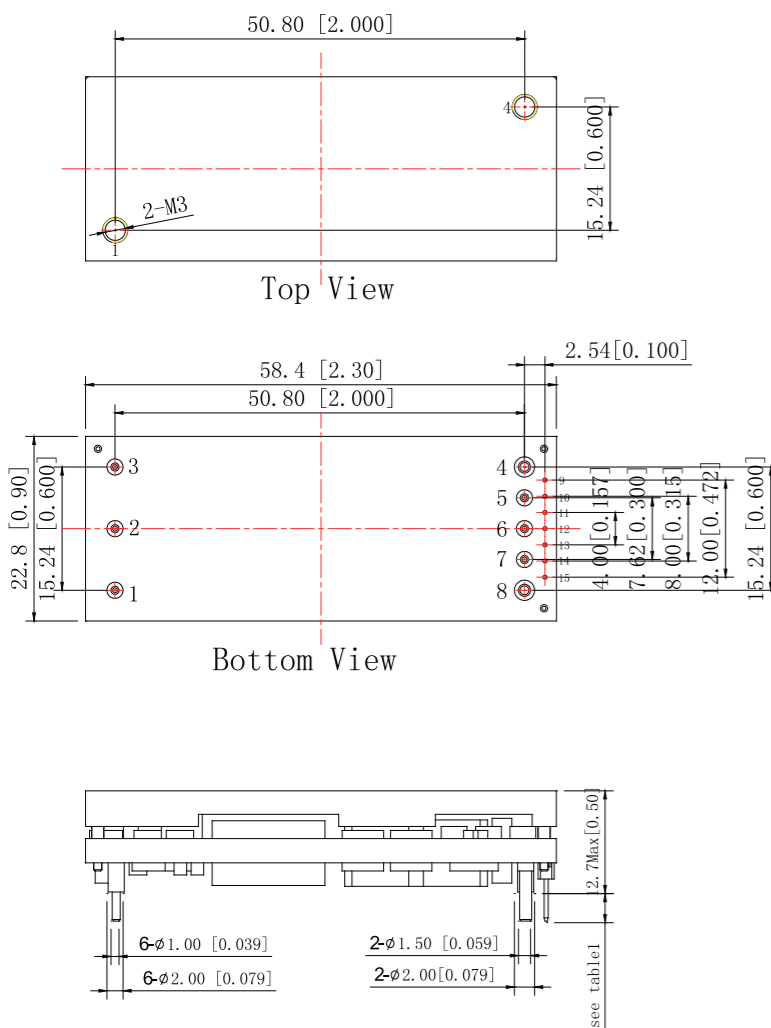
Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	+Vin	Positive input voltage	5	-SENSE	Negative remote compensation
2	REM	Remote control	6	TRIM	Output voltage trim
3	-Vin	Negative input voltage	7	+SENSE	Positive remote compensation
4	GND	Negative output voltage	8	Vo1	Positive output voltage

Order information(With PMBus)

MPN	Input voltage	Output voltage	Output current	Power	Efficiency
LDFE300-48S12DCPX1	36-75Vdc	12Vdc	25A	300W	95%
LDFE400-48S12DCPX1	36-75Vdc	12Vdc	33.3A	400W	95%
LDFE450-48S12DCPX1	36-75Vdc	12Vdc	37.5A	450W	95%
LDFE600-48S12DCPX1	36-75Vdc	12Vdc	50A	600W	95%

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	-Vin	Negative input voltage
4	GND	Negative output voltage
5	-S	Negative remote compensation
6	TRIM	Output voltage trim
7	+S	Positive remote compensation
8	+Vo1	Positive output voltage
9	PG	Power Good
10	SIN_GND	Signal GND
11	DATA	PMBus Data
12	SMBALERT#	PMBus Alarm
13	CLOCK	PMBus Clock
14	AD01	PMBus Address Pinstrap 01
15	AD00	PMBus Address Pinstrap 00

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Sixteenth-Brick” footprint
- Up to 20A output current
- High efficiency up to 92.5%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-20%~+10%Vo)
- IUV, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	36-75Vdc
Remote Control ^{Note②}	Positive(P), Negative(N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	50-100W
Output voltage ^{Note①}	5/12/4.2Vdc
Output voltage precision	±2%
Output voltage trim logic ^{Note②}	Positive(P), Negative(N)
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±5%Vo/200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV

General Characteristic

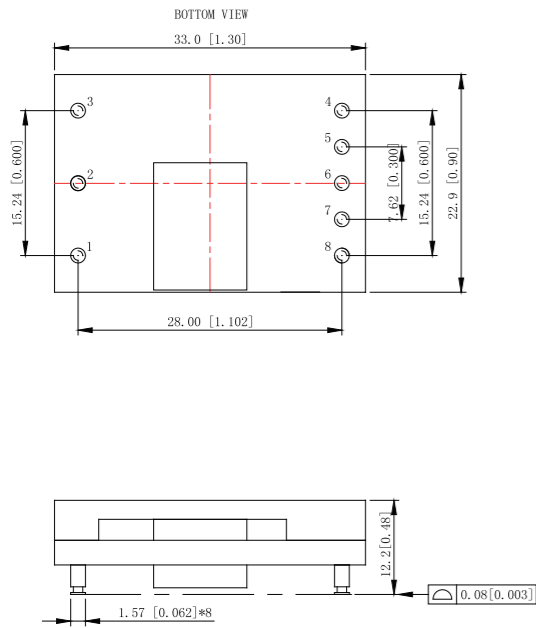
Parameter	Specifications
Efficiency	92.5%(max.)
Operating ambient temperature	-40 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching Frequency	250-350kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	12Mhours Telcordia SR332 Issue 4, 2016, 40 C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

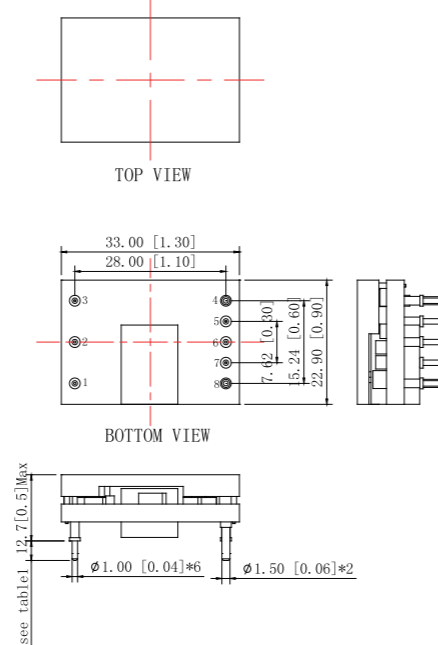
Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])

Outline diagram (Surface mounting version)



Outline diagram (Through-hole mounting version)



Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	+Vin	Positive input voltage	5	-SENSE	Negative remote compensation
2	REM	Remote control	6	TRIM	Output voltage trim
3	-Vin	Negative input voltage	7	+SENSE	Positive remote compensation
4	GND	Negative output voltage	8	Vo1	Positive output voltage

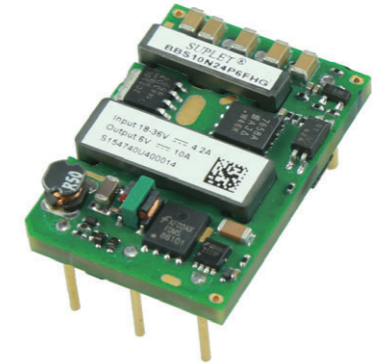
Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
ABS10N48P5CHG	36-75Vdc	5Vdc	10A	50W	90%	Sixteenth-Brick
ABS7P48P12IHG	36-75Vdc	12Vdc	7A	84W	91%	Sixteenth-Brick
ABS17P48P12IHGA	36-75Vdc	12Vdc	17A	200W	92.5%	Sixteenth-Brick
ABS20N48P5BHGA	36-75Vdc	5Vdc	20A	100W	92%	Sixteenth-Brick
ABS20N48P5GSGA	36-75Vdc	5Vdc	20A	100W	92%	Sixteenth-Brick
ABS20P48P5BHGI	36-75Vdc	5Vdc	20A	100W	92%	Sixteenth-Brick
ABS8N48P12BHGS	36-75Vdc	12Vdc	8.3A	100W	92.5%	Sixteenth-Brick
ABS30N48P5BHGA	36-75Vdc	5Vdc	30A	150W	92%	Sixteenth-Brick
ABS30N48P4V2GSGA	36-75Vdc	4.2Vdc	30A	126W	90%	Sixteenth-Brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Sixteenth-Brick” footprint
- Up to 25A output current
- High efficiency up to 93.5%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-20%~+10%Vo)
- IUVP, OVP, OTP,OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	18-36Vdc
	36-75Vdc
	18-75Vdc
Remote Control Note②	Positive(P), Negative(N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power Note①	30-150W
Output voltage Note①	3.3/4.2/5/6/12/15/30Vdc
Output voltage precision	±2%Vo
Output voltage trim logic Note②	Positive(P),Negative(N)
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±5%Vo/200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV

General Characteristic

Parameter	Specifications
Efficiency	93.5%(max.)
Operating ambient temperature	-40 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching Frequency	270-400kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	12Mhours Telcordia SR-332 Issue4, 2016, 40 C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

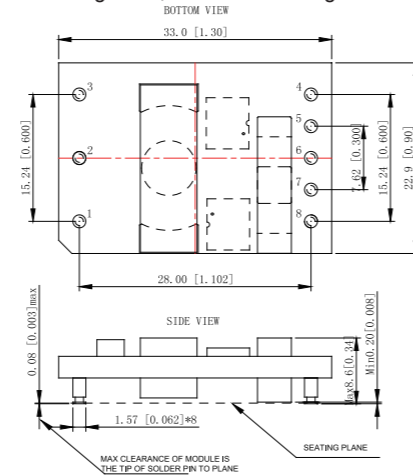
Note② Refer to the production naming rules

Order Information

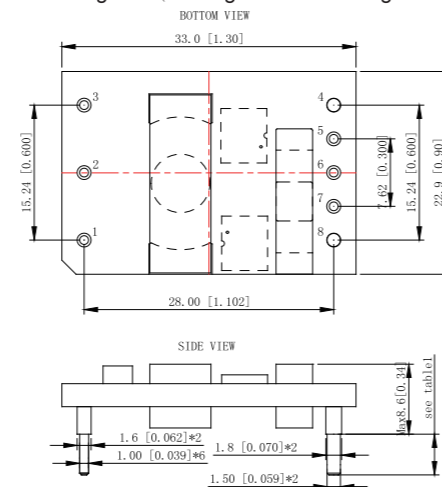
MPN	Input voltage	Output voltage	Output current	Power	Efficiency
BBS2N48P12BTG	36-75Vdc	12Vdc	2A	89%	Sixteenth-Brick
BBS2N48P12BHGA	36-75Vdc	12Vdc	2A	90%	Sixteenth-Brick
BBS2N48P15BHG	36-75Vdc	15Vdc	2A	89%	Sixteenth-Brick
BBS10N48P3V3BTG	36-75Vdc	3.3Vdc	10A	91.5%	Sixteenth-Brick
BBS10N48P3V3CTG	36-75Vdc	3.3Vdc	10A	91.5%	Sixteenth-Brick
BBS10N48P3V3GSG	36-75Vdc	3.3Vdc	10A	91.5%	Sixteenth-Brick
BBS3N24P15FHE	18-36Vdc	15Vdc	3A	88%	Sixteenth-Brick
BBS10N48P5BHGW	18-75Vdc	5Vdc	10A	90%	Sixteenth-Brick
BBS10N48P5GSG	36-75Vdc	5Vdc	10A	90%	Sixteenth-Brick
BBS15N48P3V3BHGW	18-75Vdc	3.3Vdc	15A	90.5%	Sixteenth-Brick
BBS15N48P3V3BTG	36-75Vdc	3.3Vdc	15A	90%	Sixteenth-Brick
BBS15N48P3V3GSG	36-75Vdc	3.3Vdc	15A	90%	Sixteenth-Brick
BBS15N48P3V3GSGW	18-75Vdc	3.3Vdc	15A	90.5%	Sixteenth-Brick
BBS4N48P12BTG	36-75Vdc	12Vdc	4.17A	90%	Sixteenth-Brick
BBS12N48P4V2BHGW	18-75Vdc	4.2Vdc	12.5A	90%	Sixteenth-Brick
BBS10N24P6FHE	18-36Vdc	6Vdc	10A	92.5%	Sixteenth-Brick
BBS12N24P5FHE	18-36Vdc	5Vdc	12A	91.5%	Sixteenth-Brick
BBS12N48P5BTG	36-75Vdc	5Vdc	12A	91%	Sixteenth-Brick
BBS12N48P5FHE	36-75Vdc	5Vdc	12A	89%	Sixteenth-Brick
BBS12P48P5BTG	36-75Vdc	5Vdc	12A	91%	Sixteenth-Brick
BBS5N24P12FHE	18-36Vdc	12Vdc	5A	89%	Sixteenth-Brick
BBS20N24P3V3FHE	18-36Vdc	3.3Vdc	20A	89%	Sixteenth-Brick
BBS17N48P5BHG	36-75Vdc	5Vdc	17A	90%	Sixteenth-Brick
BBS25N48P3V3BHG	36-75Vdc	3.3Vdc	25A	91.5%	Sixteenth-Brick
BBS7N48P12BTG	36-75Vdc	12Vdc	7A	91%	Sixteenth-Brick
BBS17N24P5FHE	18-36Vdc	5Vdc	17A	91.5%	Sixteenth-Brick
BBS3N48P30BHGA	36-75Vdc	30Vdc	3A	93.5%	Sixteenth-Brick
BBS8N24P12FHE	18-36Vdc	12Vdc	8A	89%	Sixteenth-Brick
BBS8N48P12BHGA	36-75Vdc	12Vdc	8.3A	92.5%	Sixteenth-Brick
BBS20N48P5BHGA	36-75Vdc	5Vdc	20A	92%	Sixteenth-Brick
BBS8N48P12CHGA	36-75Vdc	12Vdc	8.3A	92.5%	Sixteenth-Brick
BBS25N48P4V2BHGA	36-75Vdc	4.2Vdc	25A	92%	Sixteenth-Brick
BBS30N48P5BHGA	36-75Vdc	5Vdc	30A	91%	Sixteenth-Brick
BBS30N48P4BHGA	36-75Vdc	4Vdc	30A	92%	Sixteenth-Brick

Outline Diagram (Unit:mm[inch])

Outline diagram (Surface mounting version)



Outline diagram (Through-hole mounting version)



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	-Vin	Negative input voltage
4	GND	Negative output voltage
5	-SENSE	Negative remote compensation
6	TRIM	Output voltage trim
7	+SENSE	Positive remote compensation
8	Vo1	Positive output voltage

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Industry standard “Thirty-Second-Brick” footprint
- Up to 5A output current
- High efficiency up to 88%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-20%~+10%Vo)
- IUVP, OVP, OTP,OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	36-75Vdc
Remote Control Note②	Positive(P), Negative(N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power Note①	25W
Output voltage Note①	3.3/5Vdc
Output voltage trim logic Note②	Positive(P),Negative(N)
Output voltage precision	±1%
Output voltage adjustment range	-20%~+10%Vo
Line regulation	±0.1%
Load regulation	±0.3%
Dynamic response	150mV/75us@50%-75%-50% di/dt=2.5A/μs
Ripple and noise	50mV

General Characteristic

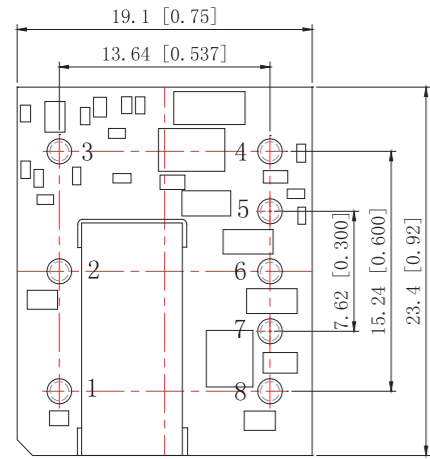
Parameter	Specifications
Efficiency	88%(max.)
Operating ambient temperature	-40 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching frequency	450kHz
Temperature coefficient	200PPM
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	Meets Telcordia SR332 Issue 4, 2016, 40 C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

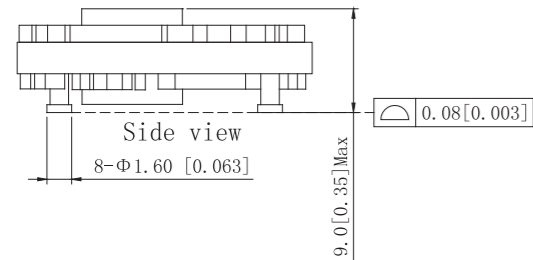
Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])

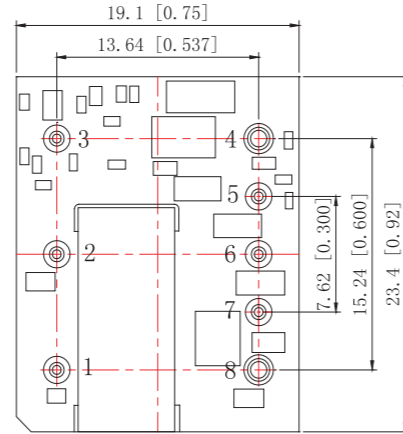
Outline diagram (Surface mounting version)



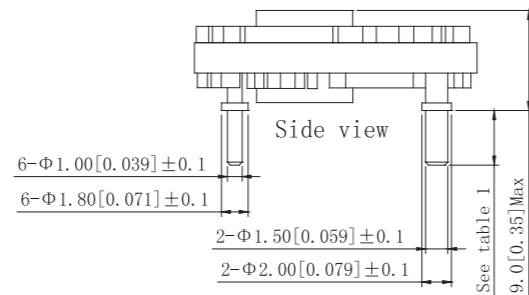
Bottom view



Outline diagram (Through-hole mounting version)



Bottom view



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	-Vin	Negative input voltage
4	GND	Negative output voltage
5	-SENSE	Negative remote compensation
6	TRIM	Output voltage trim
7	+SENSE	Positive remote compensation
8	Vo1	Positive output voltage

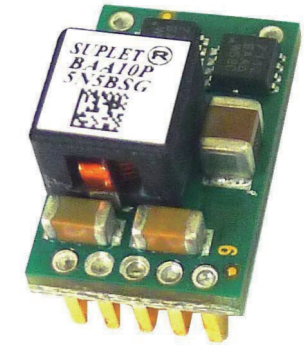
Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
BBT5N48P5GSG	36-75Vdc	5Vdc	5A	25W	88%	Thirty-Second-Brick
BBT7N48P3V3GSG	36-75Vdc	3.3Vdc	7.5A	25W	85.5%	Thirty-Second-Brick
BBT7N48P3V3BHG	36-75Vdc	3.3Vdc	7.5A	25W	85.5%	Thirty-Second-Brick

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Small size and profile
- Up to 10A output current
- High efficiency up to 93%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	3.0-13.8Vdc
Remote Control ^{Note②}	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	55-108W
Output voltage ^{Note①}	3.0-13.8Vdc
Output voltage trim logic ^{Note②}	Positive(P), Negative(N)
Output voltage precision	1%
Line regulation	30mV
Load regulation	30mV
Dynamic response	55mV/20us@25%~50%Io(nom), di/dt=2.5A/μS.
Ripple and noise	45mV(typ.)

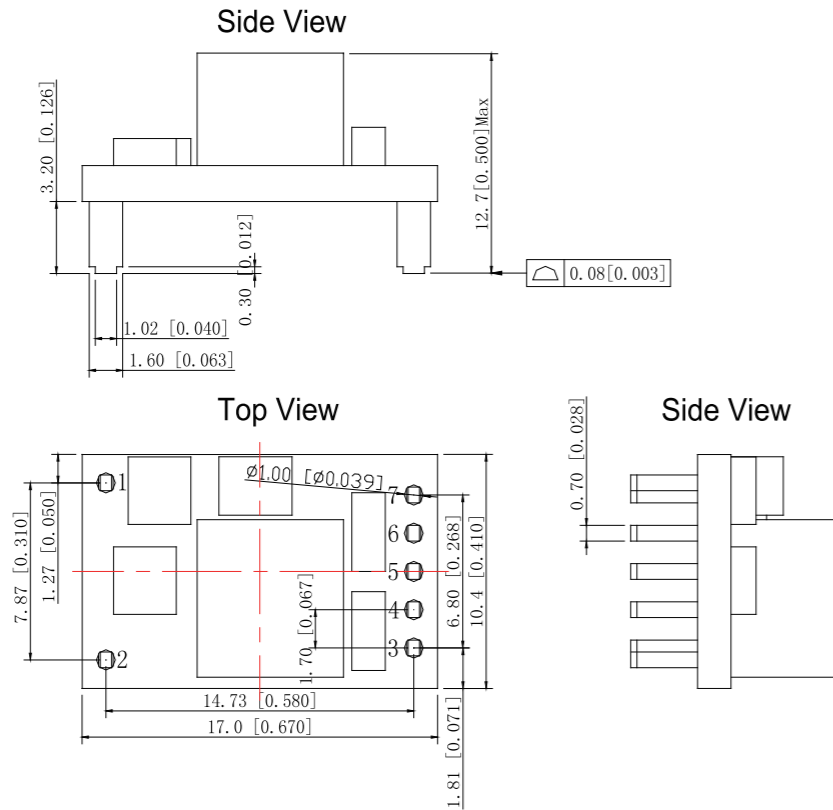
General Characteristic

Parameter	Specifications
Efficiency	93%
Operating ambient temperature	-40 C ~ +85 C
Storage temperature	-55 C ~ +125 C
Switching frequency	620kHz
Temperature coefficient	200PPM
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	20Mhours Telcordia SR332 Issue 4, 2016, 40 C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1,2	NC	Location Pin
3	TRIM/POWERGOOD	Output voltage
		adjustment/Power good indicator
4	Vo1	Positive output voltage
5	GND	Negative input and output
6	+Vin	Positive input voltage
7	REM	Remote control

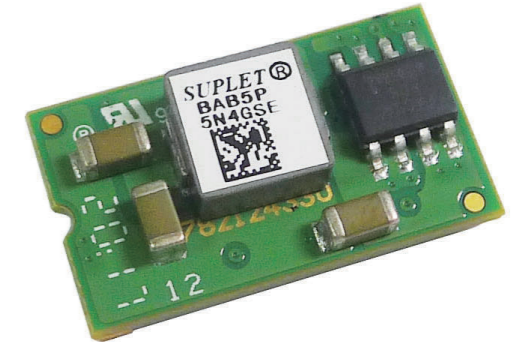
Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
BAA10P5N5BIG	3.0-13.8Vdc	0.59-5.1Vdc	10A	50W	93%	17.00*10.40*8.20mm
BAA10P5N5BSG	3.0-13.8Vdc	0.59-5.1Vdc	10A	50W	93%	17.00*10.40*12.70mm

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Small size and profile
- Up to 5A output current
- High efficiency up to 95%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	3.0-5.8Vdc
Remote Control ^{Note②}	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	20-275W
Output voltage ^{Note①}	3.0-5.8Vdc
Output voltage trim logic ^{Note②}	Positive(P), Negative(N)
Output voltage precision	3.0%
Line regulation	±0.3%
Load regulation	±0.4%
Dynamic response	130mV/50us@25%~50%~75%Io(nom), di/dt=2.5A/μs
Ripple and noise	25mV(typ.)

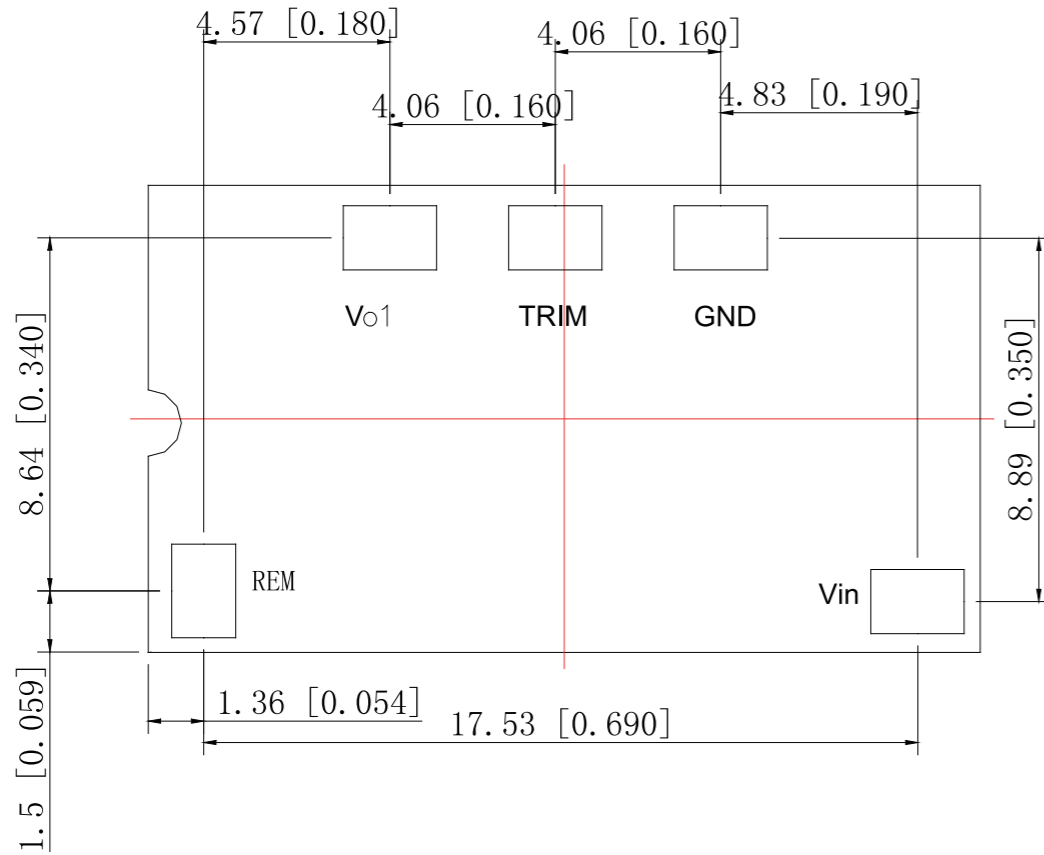
General Characteristic

Parameter	Specifications
Efficiency	95%
Operating ambient temperature	-40 C~+85 C
Storage temperature	-55 C~+125 C
Switching frequency	250-350kHz
Temperature coefficient	200PPM
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	20Mhours Telcordia SR332 Issue 4, 2016,40 C
Packaging	SMD

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	Vo1	Positive output voltage
2	TRIM	Output voltage trim
3	GND	Negative input and output
4	+Vin	Positive input voltage
5	REM	Remote control

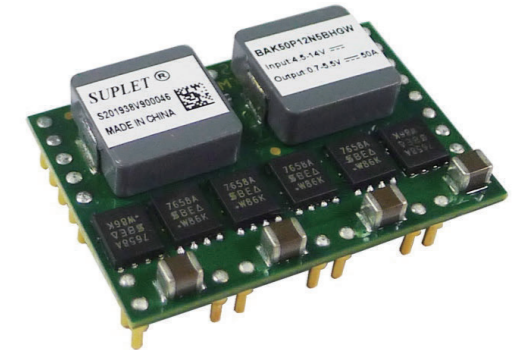
Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
BAB5P5N4GSE	3.0-5.8Vdc	0.75-4.0Vdc	5A	20W	95	20.3*11.4*6.1mm

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Small size and profile
- Up to 50A output current
- High efficiency up to 95%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	4.5-14Vdc
Remote Control ^{Note②}	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	275W
Output voltage ^{Note①}	0.7-5.5Vdc
Output voltage trim logic ^{Note②}	Positive(P), Negative(N)
Output voltage precision	1.5%
Line regulation	±5mV
Load regulation	±5mV
Dynamic response	240mV/100us@50%-100%-50%Io(max), di/dt=2.5A/μs
Ripple and noise	100mV(typ.)

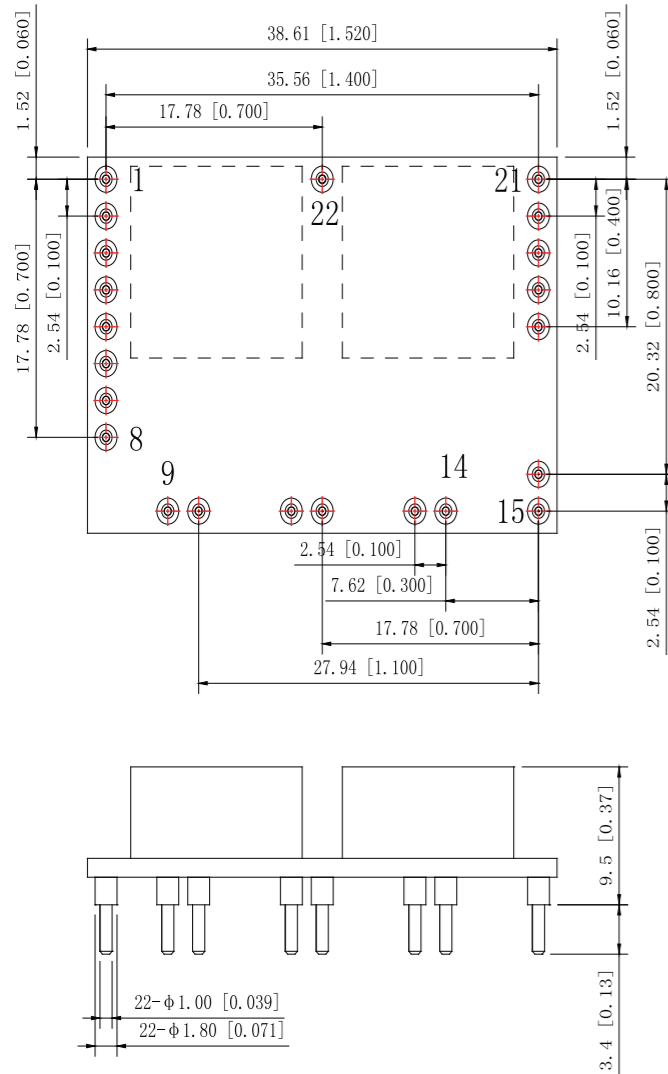
General Characteristic

Parameter	Specifications
Efficiency	95%
Operating ambient temperature	-40 C -+85 C
Storage temperature	-540 C -+125 C
Switching frequency	300kHz
Temperature coefficient	200PPM
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	16Mhours Telcordia SR332 Issue 4, 40 C, 2016
Packaging	Through-Hole

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	REMOTE	Remote control
2	TRACK	Sequence
3	NC	No connection
4	TRIM	Output voltage trim
5	+S	Positive Remote Compensation
6	-S	Negative Remote Compensation
7 8	Vin+	Positive Input Voltage
9 10	GND	Input / Output Ground
11 12	VO	Output Voltage
13 14	GND	Input / Output Ground
15 16	Vin+	Positive Input Voltage
17	CLK	Clock
18	GND	Input / Output Ground
19	COMP	Compensation Voltage
20	VSHARE	Current Share Bus
21	CONFIG	Current Share Configuration
22	NC	No Connection

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
BAK50P12N5BHGW	4.5-14Vdc	0.7-5.5Vdc	50A	275	95%	38.61*25.9*12.9mm

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Small size and profile
- Up to 60A output current
- High efficiency up to 95%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	4.5-14Vdc
	5.0-14.0Vdc
	5.0-14.4Vdc
	6.0-14.0Vdc
Remote Control Note②	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power Note①	80-120W
Output voltage trim logic Note②	Positive(P), Negative(N)
Output voltage precision	1.5%
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±3%Vo/200us@25%-50%-75% Io(max), di/dt=2.5A/μs
Ripple and noise	80mV(typ.)

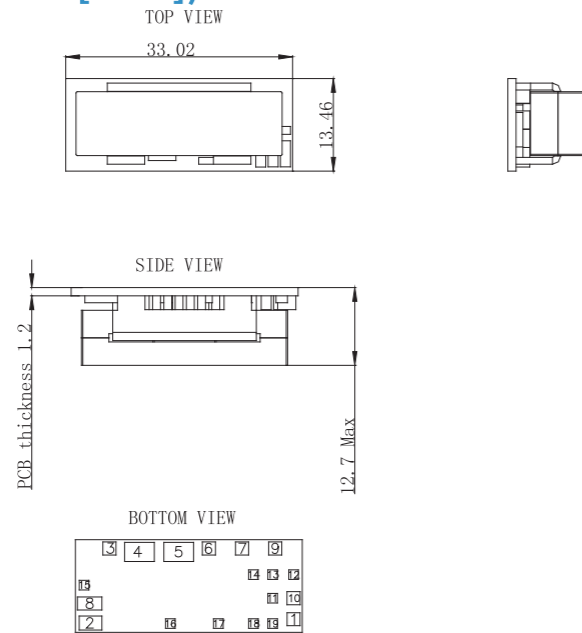
General Characteristic

Parameter	Specifications
Efficiency	94.7%
Operating ambient temperature	-40 C -+85 C
Storage temperature	-55 C -+125 C
Switching frequency	330-635kHz
Temperature coefficient	200PPM
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	(Vout ≤30A, 20MHours; Vout>30A, 16MHours) Telcordia SR332 Issue 4, 2016, 40 C
Packaging	SMD

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1	REM	Remote Control ON/OFF	11	SIG_GND	Signal GND
2	VIN	Input Voltage	12	VS-	Negative Sense
3	SEQ	Sequence	13	CLK	PMBus Clock
4	GND	Negative Output Voltage	14	DATA	PMBus Data
5	VOUT	Output Voltage	15	SYNC	Synchronization
6	TRIM	Output Voltage Adjustment	16	PG	Power Good
7	VS+	Positive Sense	17	SMBALERT#	PMBus Alarm
8	GND	Negative Output Voltage	18	ADDRESS0	PMBus Address Pinstrap 0
9	SHARE	Current Sharing	19	ADDRESS 1	PMBus Address Pinstrap 1
10	GND	Negative Output Voltage			

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
BAM40N12D0V6GSG	5.0-14.4Vdc	0.6-2.0Vdc	40A	80	91.5%	33.02*13.46*12.70mm
BAM20N12N5V5GSG	4.5-14Vdc	0.69-5.5Vdc	20A	110	91%	33.02*13.46*8.50mm
BAM60N12D0V6GSG	5.0-14.0Vdc	0.6-2.0Vdc	60A	120	91.5%	33.02*13.46*12.70mm
BAM60N12D0V6GSGA	5.0-14.0Vdc	0.6-2.0Vdc	60A	120	88.5%	33.02*13.46*12.7mm
BAM30N12N5GSG	6.0-14.0Vdc	0.8-5.0Vdc	30A	150	94.7%	33.02*13.46*9.30mm

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Small size and profile
- Up to 20A output current
- High efficiency up to 91%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	4.5-13.8Vdc
Remote Control ^{Note②}	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	80-120W
Output voltage ^{Note①}	0.59-5.1Vdc
Output voltage trim logic ^{Note②}	Positive(P), Negative(N)
Output voltage precision	1.0%
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	200mV/25us @50%~100%Io(nom), di/dt=5A/μS
Ripple and noise	70mV(typ.)

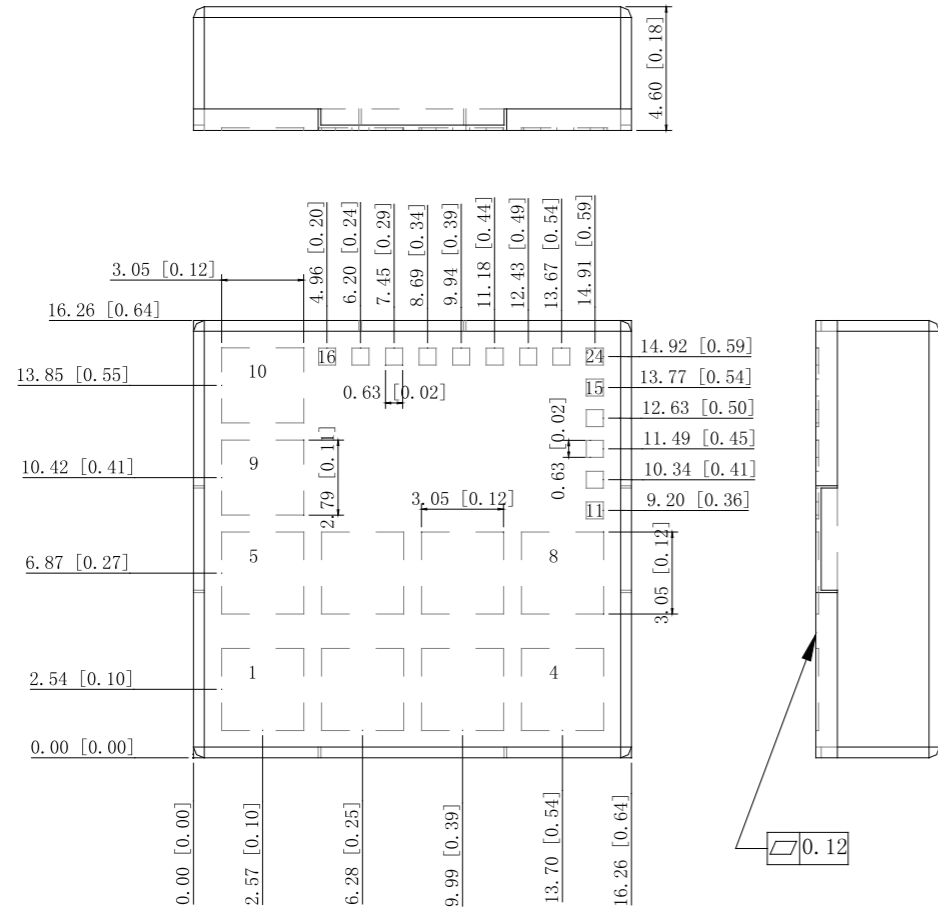
General Characteristic

Parameter	Specifications
Efficiency	91%
Operating ambient temperature	-40 C-+85 C
Storage temperature	-40 C-+125 C
Switching frequency	640-960kHz
Temperature coefficient	200PPM
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	20Mhours Telcordia SR332 Issue 4, 2016, 40 C
Packaging	SMD

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function	Pin No.	Symbol	Function
1,2,3,4	VO	Positive output	14	-Sense	Negative output voltage remote sense
5,6,7,8	GND	Negative input and output	15	+Sense	Positive output voltage remote sense
9,10	Vin	Positive input	21	Enable	Remote on/off control
11,16~20	NC	No connection	22	Power Good	Power state indicator
12	-Offset	Downward margin adjustment	23	Margin Control	Output voltage subtle adjustment
13	+Offset	Upward margin adjustment	24	TRIM	Output voltage Set-point adjustment

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
DAC20P12P0V59GSE	4.5-13.8Vdc	0.59-5.1Vdc	20A	91%	100W	0.64×0.64×0.18inch

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Small size and profile
- Up to 30A output current
- High efficiency up to 94%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	7.0-14.5Vdc
	8.0-14.5Vdc
Inhibit Control ^{Note②}	Inhibit High Voltage
	Inhibit Low Voltage

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

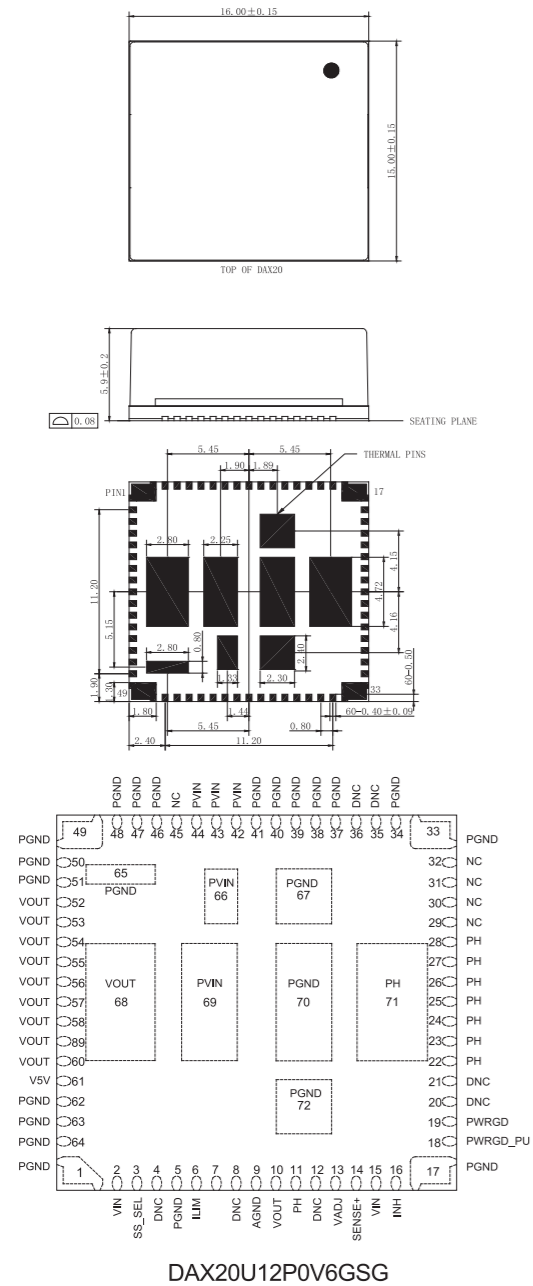
Parameter	Specifications
Output power ^{Note①}	55-108W
Output voltage ^{Note①}	1.2-5.5Vdc, 0.6-3.6Vdc
Output voltage trim logic ^{Note②}	Positive(P), Negative(N)
Output voltage precision	±2.0%Vo
Line regulation	±0.1%
Load regulation	±0.5%
Dynamic response	±100mV/75us@25%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	25mV

General Characteristic

Parameter	Specifications
Efficiency	94%(max.)
Operating ambient temperature	-40°C~+80°C
Storage temperature	-55°C~+150°C
Switching frequency	470-570kHz
Temperature coefficient	±0.25%/°C
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	20Mhours Telcordia SR332 Issue 4, 2016, 40°C
Packaging	SMD

Note① Refer to order-information list in the following page for specific values of input and output
 Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Symbol	Function
AGND	Signal GND
DNC	Do Not Connect
FREQ_SEL	Frequency Select pin
ILIM	Current limit setting pin
INH	Inhibit pin
PGND	Power GND
PH	Phase switch node
PVIN	Input switching voltage pin
PWRGD	Power Good flag pin
PWRGD_1	Power Good flag pin
PWRGD_UP	Power Good pull-up pin
SENSE+	Remote sense connection
SS_SEL	Slow-start select pin
V5V	5V regulator pin
VADJ	Output voltage adjust pin
VIN	Input bias voltage pins
VOUT	Output voltage

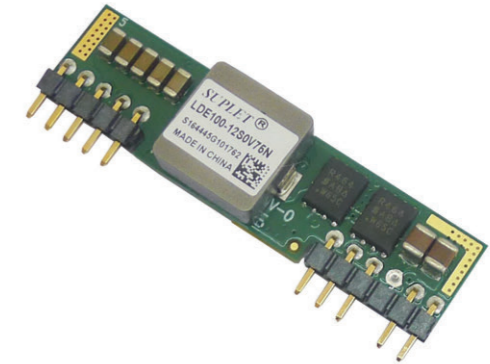
Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
DAX10U12P0V6GSG	DAX10U12P0V6GSG	1.2-5.5Vdc	10A	55W	91%	15.0*9.0*6.1mm
DAX20U12P0V6GSG	DAX20U12P0V6GSG	0.6-3.6Vdc	20A	72W	94%	16.00*15.00*5.9mm
DAX30U12P0V6GSG	DAX30U12P0V6GSG	0.6-3.6Vdc	30A	108W	94%	16.0*15.0*6.1mm

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Small size and profile
- Up to 20A output current
- High efficiency up to 95%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	3-5.5Vdc
	4.5-5.5Vdc
	9-14Vdc
	4.5-14Vdc
Remote Control ^{Note②}	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	10-110W
Output voltage	^{Note①}
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±3%Vo% /200us @25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV(typ.)

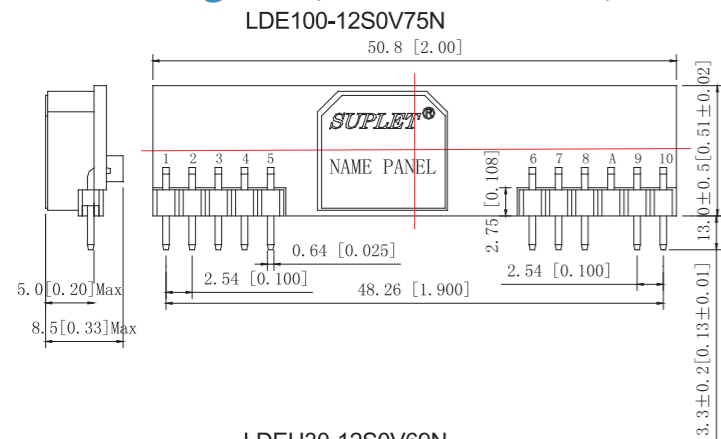
General Characteristic

Parameter	Specifications
Efficiency	95%(max.)
Operating ambient temperature	-40 C -+85 C
Storage temperature	-55 C -+125 C
Switching frequency	250-350kHz
Temperature coefficient	200PPM
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	20Mhours Telcordia SR332 Issue 4, 2016,40 C
Packaging	Through-Hole

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

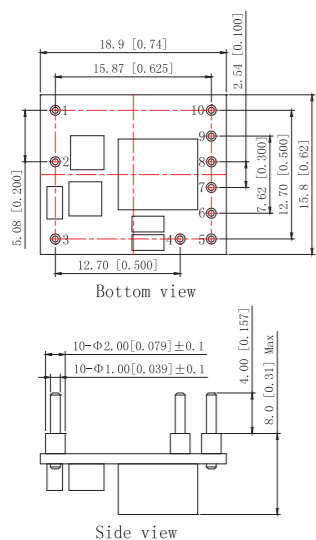
Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1,2,4	Vo1	Positive input voltage
3	Sense	Remote compensate
5,6	GND	Negative input and output
7,8	+Vin	Positive input voltage
A	NC	No connection
9	TRIM	Output voltage trim
10	REM	Remote control

LDEH30-12S0V69N



Pin No.	Symbol	Function
1	N/A	/
2	+Vin	Positive input voltage
3	GND	Negative input and output
4	Vout	Positive output voltage
5	+SENSE	Positive Remote Compensation
6	-SENSE	Negative Remote Compensation
7	TRIM	Output voltage trim
8	N/A	/
9	Track	Sequence
10	REM	Remote control

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDE30-5S1V0	3-5.5Vdc	1Vdc	10A	10W	92%	50.8*12.7*7.52mm
LDE30-5S2V5	4.5-5.5Vdc	2.5Vdc	10A	25W	93%	50.8*12.7*7.52mm
LDE30-5S3V3	4.5-5.5Vdc	3.3Vdc	10A	33W	92%	50.8*12.7*7.52mm
LDE30-5S0V75N	3-5.5Vdc	0.75-3.63Vdc	10A	36.3W	93%	50.8*12.7*7.52mm
LDE50-5S0V75N	3.0-5.5Vdc	0.75-3.63Vdc	16A	50W	92%	50.8*12.7*7.52mm
LDE50-12S0V75N	9-14Vdc	0.75-5.5Vdc	10A	55W	92%	50.8*13.0*8.5mm
LDE50-12S0V75NP	9-14Vdc	0.75-5.5Vdc	10A	55W	93%	50.8*13.0*8.5mm
LDE80-12S0V75N	9-14Vdc	0.75-5.5Vdc	16A	88W	92%	50.8*13.0*8.5mm
LDE80-12S0V75NP	9-14Vdc	0.75-5.5Vdc	16A	88W	92%	50.8*13.0*8.5mm
LDE100-12S0V75N	9-14Vdc	0.75-5.5Vdc	20A	110W	95%	50.8*13.0*8.5mm
LDEH30-12S0V69N	4.5-14Vdc	0.69-5.5Vdc	6A	30W	85%	18.92*15.75*7.50mm

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Small size and profile
- Up to 16A output current
- High efficiency up to 94%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	2.8-5.5Vdc
	3.0-5.5Vdc
	9-14Vdc
Remote Control Note②	Positive(P), Negative (N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power Note①	12-80W
Output voltage adjustment range	Note①
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±3%Vo% /200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV(typ.)

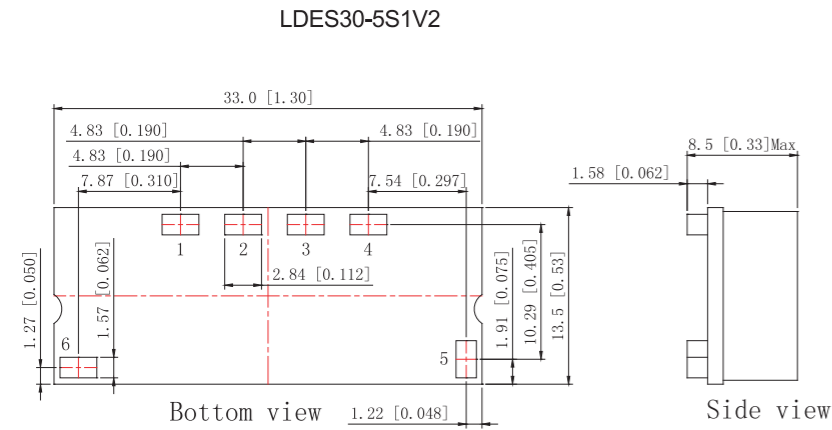
General Characteristic

Parameter	Specifications
Efficiency	94%(max.)
Operating ambient temperature	-40℃-+85℃
Storage temperature	-55℃-+125℃
Switching frequency	250-350kHz
Temperature coefficient	200PPM
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	20Mhours Telcordia SR332 Issue 4, 2016, 40℃
Packaging	SMD

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	GND	Negative input and output
2	Vo1	Positive output voltage
3	TRIM	Output voltage trim
4	+Sense	Remote Compensation
5	REM	Remote control
6	+Vin	Positive input voltage

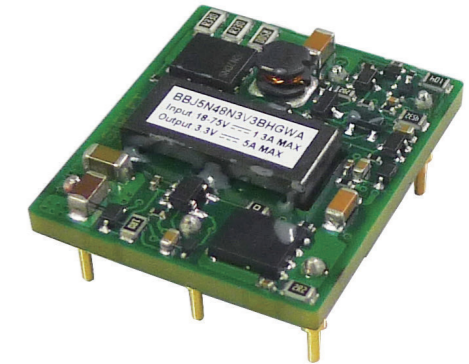
Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDES30-5S1V2	3.0-5.5Vdc	1.2Vdc	10A	12W	85%	33.00*13.50*8.28mm
LDES20-5S0V75N	2.8-5.5Vdc	0.75-3.63Vdc	6A	20W	94%	27.90*11.40*7.46mm
LDES30-5S2V5	3.0-5.5Vdc	2.5Vdc	10A	25W	92%	33.00*13.50*8.28mm
LDES30-5S0V75NT	2.8-5.5Vdc	0.75-3.63Vdc	10A	36.3W	94%	33.00*13.50*8.28mm
LDES50-5S1V2	3.0-5.5Vdc	1.2Vdc	16A	50W	84%	33.00*13.46*8.50mm
LDES50-5S0V75N	3.0-5.5Vdc	0.75-3.63Vdc	16A	58W	93%	33.00*13.46*8.50mm
LDES80-12S0V75N	9-14Vdc	0.75-5.5Vdc	16A	80W	94%	33.00*13.50*8.30mm

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- 1*1 inch footprint
- Up to 5A output current
- High efficiency up to 88.5%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-10%~+10%Vo)
- IUVP, OVP, OTP,OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	18-75Vdc
	36-75Vdc
Remote Control Note②	Positive(P),Negative(N)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power Note①	15-16.5W
Output voltage Note①	3.3/5/12Vdc
Output voltage precision	±2%Vo
Output voltage trim logic Note②	Positive(P),Negative(N)
Output voltage adjustment range	-10%~+10%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±3%Vo% /200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV(typ.)

General Characteristic

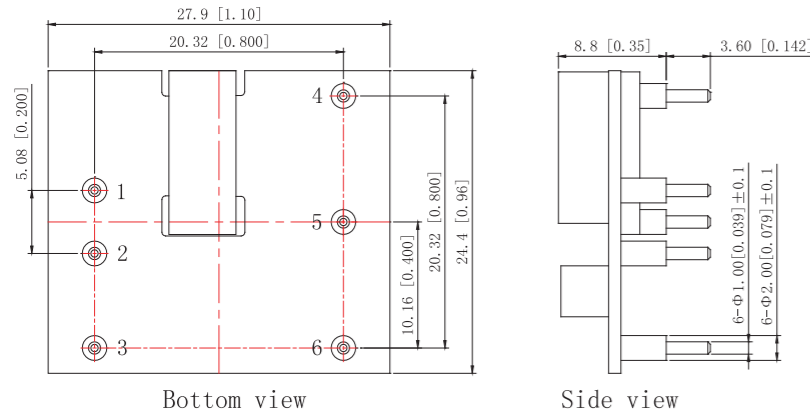
Parameter	Specifications
Efficiency	88.5%(max.)
Operating ambient temperature	-40 C ~+85 C
Storage temperature	-55 C ~+125 C
Switching frequency	300-500kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	20Mhours Telcordia SR332 Issue 4, 2016, 40 C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm)

BBJ5N48N3V3BHGWA



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	-Vin	Negative input voltage
3	REM	Remote control
4	Vout+	Positive output voltage
5	TRIM	Output voltage trim
6	Vout-	Negative output voltage

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
BBJ3N48N5EHG	18-75Vdc	5Vdc	3A	15W	86%	1*1 inch
BBJ3N48N5GSG	36-75Vdc	5Vdc	3A	15W	86%	1*1 inch
BBJ1N48N12CHGW	18-75Vdc	12Vdc	1.3A	15.6W	88.5%	1*1 inch
BBJ5N48N3V3BHGWA	18-75Vdc	3.3Vdc	5A	16.5W	88%	1*1 inch

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- 1*1 inch footprint
- Up to 1A output current
- High efficiency up to 78%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	36-72Vdc
Remote Control ^{Note②}	Positive (Blank), Negative (P)

Protection Characteristics

Parameter	Specifications
Output over voltage protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	5W
Output voltage ^{Note②}	5.05Vdc
Output voltage precision	±1%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±3%Vo/300us@25%-50%-25%, 50%-75%-50% Io(max.) di/dt=2.5A/μs
Ripple and noise	50mV

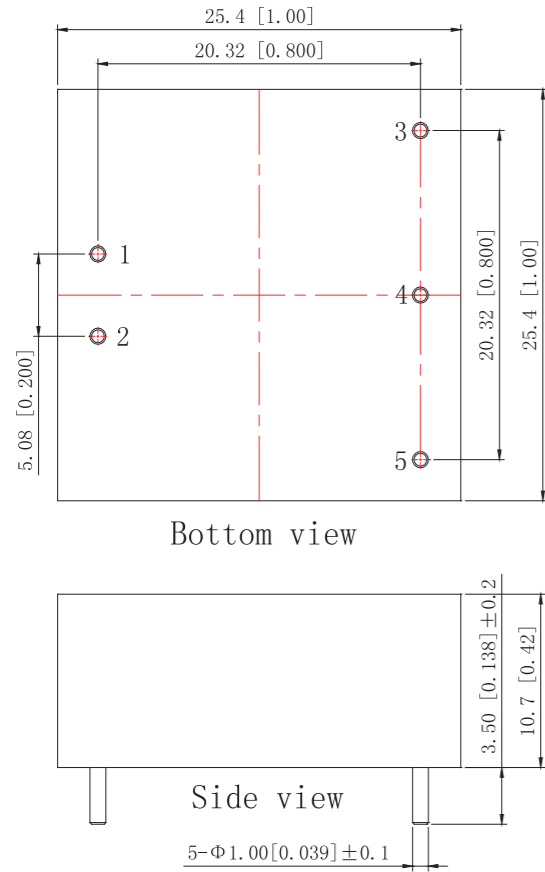
General Characteristic

Parameter	Specifications
Efficiency	78%(max.)
Operating ambient temperature	-25°C - +55°C
Storage temperature	-25°C - +95°C
Switching frequency	300kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	100MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	2Mhours min. Telcordia SR332 Issue 3, 40°C
Packaging	Through-Hole

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	-Vin	Negative input voltage
3	Vo1	Positive output voltage
4	NP	No pin
5	GND	Negative output voltage

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDB5-48S5	36-72Vdc	5.05Vdc	1A	5W	78%	1*1 inch

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- 2*2 inch footprint
- Up to 10A output current
- High efficiency up to 88%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage (-10%~+10%Vo)
- IUVP, OVP, OTP, OCP, SCP



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	9.5-18Vdc
	36-72Vdc
Remote Control Note②	Positive(Blank), Negative(P)

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power Note①	33-48W
Output voltage Note①	3.3/48Vdc
Output voltage precision	±2%Vo
Output voltage trim logic Note②	Positive (S), Negative (Blank)
Output voltage adjustment range	-10%~+10%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±5%Vo/200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV(typ.)

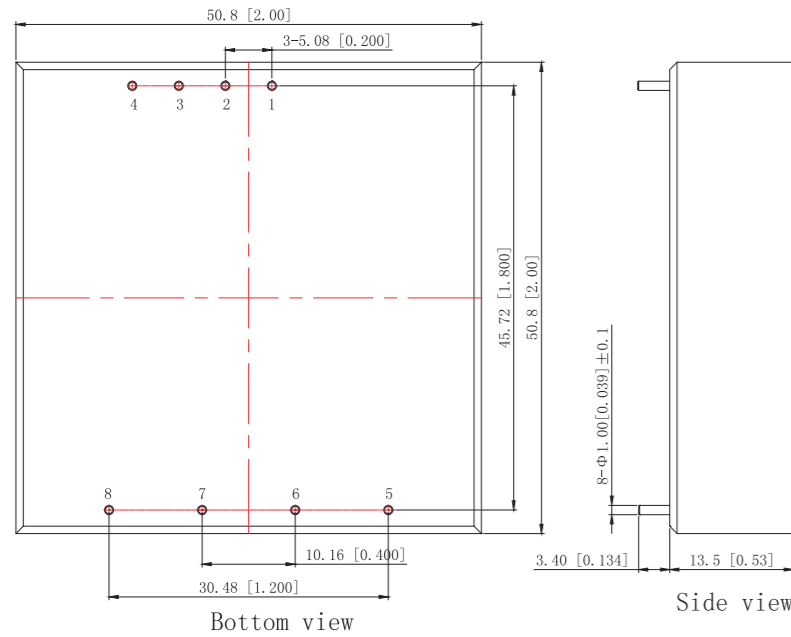
General Characteristic

Parameter	Specifications
Efficiency	88%(max.)
Operating ambient temperature	-40 C ~+70 C
Storage temperature	-40 C ~+105 C
Switching frequency	300kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	100MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	300khours min. Telcordia SR332 Issue 3, 40 C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	-Vin	Negative input voltage
3	NP	No pin
4	REM	Remote control
5	NP	No pin
6	Vo1	Positive output voltage
7	GND	Output ground
8	TRIM	Output voltage trim

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDB40-48S3V3	36-72Vdc	3.3Vdc	10A	33W	88%	2*2 inch
LDB40-12S48	9.5-18Vdc	48Vdc	1A	48W	84%	2*2 inch

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Features

- Flexible BMP module application
- Up to 35A output current
- High efficiency up to 93%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-10%~+10%Vo)
- IUVP, OVP, OTP, OCP, SCP
- Compliance with the EU RoHS directive 2011/65/EU and (EU)2015/863



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage ^{Note①}	8-14Vdc
	16-36Vdc
	36-75Vdc
Remote Control	^{Note②}

Protection Characteristics

Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

Output Characteristic

Parameter	Specifications
Output power ^{Note①}	16.5-200W
Output voltage	^{Note①}
Output voltage precision	±2%Vo
Line regulation	±0.2%
Load regulation	±0.5%
Dynamic response	±5%Vo/200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	300mV(max.)

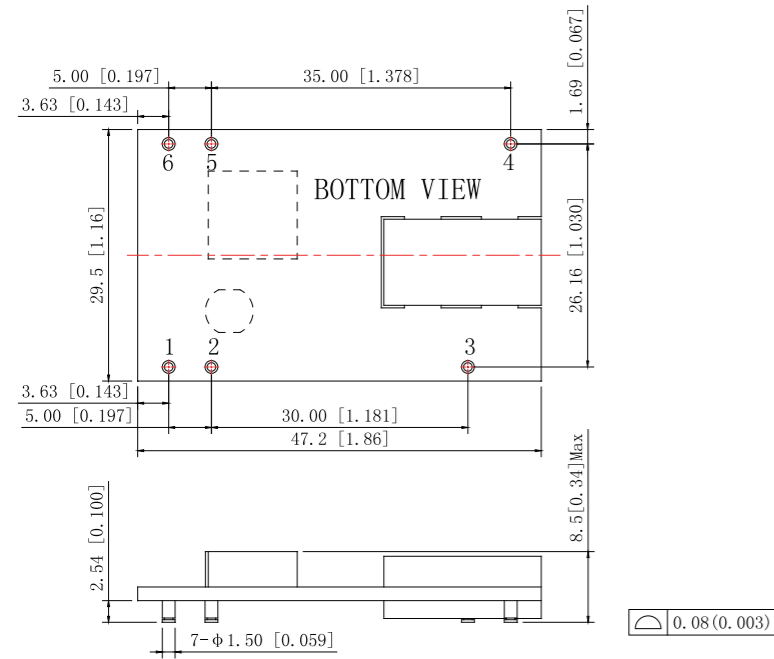
General Characteristic

Parameter	Specifications
Efficiency	94%
Operating ambient temperature	-40°C~+85°C
Storage temperature	-55°C~+125°C
Switching frequency	280-500kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	Meets IEC60950-1&IEC/UL/EN62368-1
MTBF	1.4Mhours min. Telcordia SR332 Issue 3, 40°C
Packaging	Through-Hole or SMD

Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	-Vin	Negative input voltage
3	REM	Remote control
4	TRIM	Output voltage trim
5	GND	Negative output voltage
6	+Vo1	Positive output voltage

Order Information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
BBG5N48P3V3GSG	36-75Vdc	3.3Vdc	5A	16.5W	87%	47.2*29.5*8.5mm
BBG4N48P5GSG	36-75Vdc	5Vdc	4A	20W	89%	47.2*29.5*8.5mm
LDF100-12D3V8-2V8	8-14Vdc	3.8Vdc	16A	100W	86%	67.97*67mm
		2.8Vdc	8A			
LDES125-12S0V75N	9-14Vdc	0.75~5.5Vdc	25A	125W	94%	330*13.5*8.3mm
LDF126-12S4V2	8-14.5Vdc	4.2Vdc	30A	126W	90%	80*36.8*16.5mm
NHD136-3V9/AE	36-75Vdc	3.9Vdc	35A	136W	91%	80*36.8*24mm
NHD136-3V9/AE-BHG	36-75Vdc	3.9Vdc	35A	136W	91%	80*36.8*12mm
NHD200-4V/AE	36-75Vdc	4.2Vdc	35A	147W	93%	80*36.8*24mm
NHD200-4V/AE-A	36-75Vdc	4.2Vdc	35A	147W	93%	87*36.8*15.5mm
NHD200-4V/AE-BHG	36-75Vdc	4.2Vdc	35A	147W	93%	80*36.8*12mm
NHD200-4V/AE-L	36-75Vdc	4.2Vdc	35A	147W	93%	87*36.8*24mm
NHD200-4V2/CC	36-75Vdc	4.2Vdc	35A	147W	93%	75*51.55*12mm
NHD200-4V-AE-A	36-75Vdc	4.2Vdc	35A	147W	91%	87*36.8*15.5mm
NHD200-4V6/AE	36-75Vdc	4.6Vdc	35A	161W	91%	80*36.8*24mm
LDK200-24S24	16-36Vdc	24Vdc	8.5A	200W	89%	160*90*40mm

Note: All information contained in this catalog is subject to change without notice, please visit our official website www.suplet.com or contact our sales for the latest information.

Naming Rules for Suplet Standard Products(Basic Version.2022)										
1	Typical Power	L	D	F	(H)	450	-48	S	28	(CGSZ3)
		Sulet Power	A:AC/DC Series D:DC/DC Series H:Hybrid AC/DC	A/B/C:Copper or aluminium case E:Non-isolated SIP or SMT F:Open frame G/M:Aluminum baseplate K:Enclosed Type O:Compatible with Micro Power S:Adapter with output cable and socket-type input terminal	Blank:Full Brick H:Half Brick Q:Quarter Brick E:Eight Brick S:Sixteenth Brick	Power(W)	Input Voltage(V) -48=48Vdc	Types of output S:Single output D: Dual output T:Three outputs M:Multiple outputs	Output Voltage(V)	Additional notes: C: With heatsink(The default is without heatsink) P: Negative remote control(The default is Positige) S: Positive TRIM logic(The default is negative) G: High efficiency W: Wide input voltage Z1/Z2/Z3/Z4/Z5 stands for different pin length
2	Small Modular Power-Single Output	A	B	E	40	N	48	P	5	(BHG)
		A: Open frame with heatsink B: Open frame without heatsink D: Glue-injecting Encapsulation	A: Non-isolated, wide input voltage& adjustable output voltage B: I/O isolated	E:Eight Brick S:Sixteenth Brick A/B/C/G/J/K/M/X: Standard footprints defined by other companies	Output Current (A)	Remote Control P:Positive logic N:Negative logic S:Without remote control	Input Voltage(V) 48: 48Vdc	S output voltage trim logic P:Positive Logic N:Negative Logic S:Without Trim function	Output Voltage(V)	A/B/C/D/E/F: Different pin length H:Through-hole S:SMT G:RoHS
3	Rectifier	S	R	48		50	(H)	(-1U)	(-RB)	
		C:Compact Rectifier M:Mini Rectifier S:Standard Rectifier	Rectifier	Nominal Output Voltage(V)		Output Current(A)	Efficiency Default: Typical Efficiency M: Middle Efficiency H:High Efficiency	Height of SR series standard rectifier, -1U: 1U height Default: 2U height	Additional items: RB:Rear Backboard	
4	Monitoring and Controller	CAS			-05			(T)		
		Control And Supervision			02: RS232/485/LAN, 03: RS232/485 04: RS232/485, DIO optional, 05:RS232/485/LAN, DIO optional			Additional items(Optional)		
5	Power System	S	T	P	48	350	H4	C1	D1	
		Suplet	Telecom	Power system	Voltage	Output Current	Height ~U	C: Controller 1 means CAS-02 2 means CAS-04	D: Different Distribution 1: Internal Number	
6	Server Power Supply	SAC	1600	-220	D	12	-12	(-054)	-AA	
		SAC:AC+(DC) input SDC:DC input	Power(W)	Input Voltage(Vac or Vdc) -220: 220Vac -48: 48Vdc	Types of output: D: Dual output	Main output voltage(Vdc)	Standby output voltage(Vdc) -12=12Vdc (-3V3=3.3Vdc)	Server Power Supply Code The default is Intel CRPS Standard (-054:facebook SLIM 054 standard)	Additional items: AA- Normal airflow direction RA- Reverse airflow direction	