

SUPLET[®]
雷能电源

Board Mounted Power

(Catalog VOL.19)

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 the 17 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.

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 20,000m²
- * More than 300 employees with some 100 R&D engineers, some technical backbones from world-famous power enterprises and, in 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 110 patents with over 30 invention patents

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.

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
- * New Energy Charging Power Supply



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

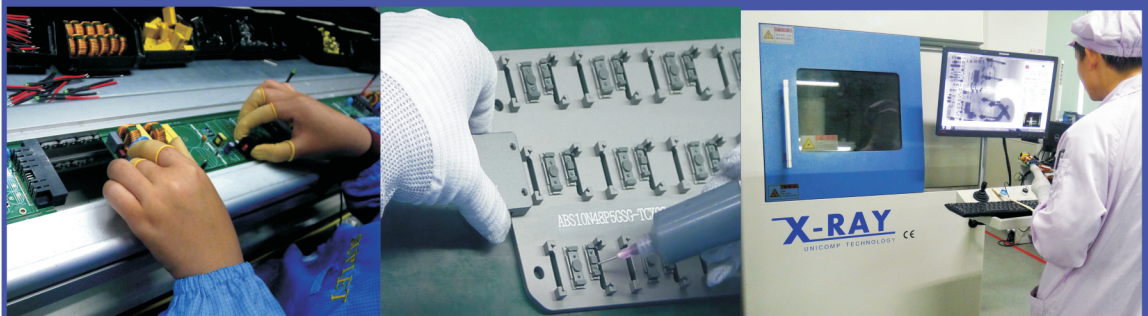
Application

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



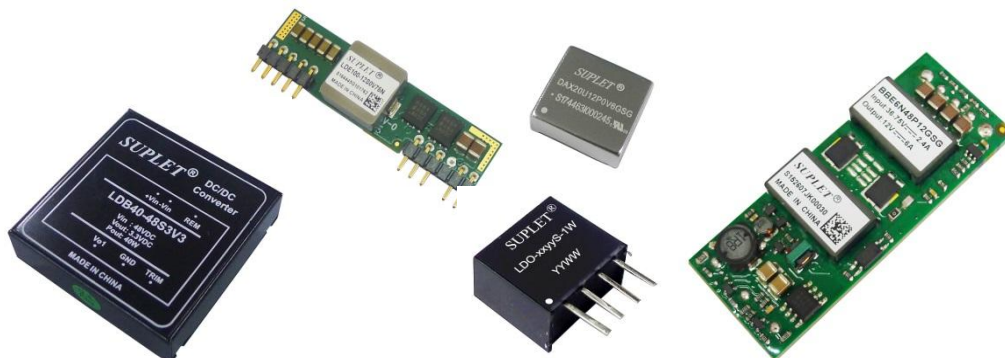
Product and Service

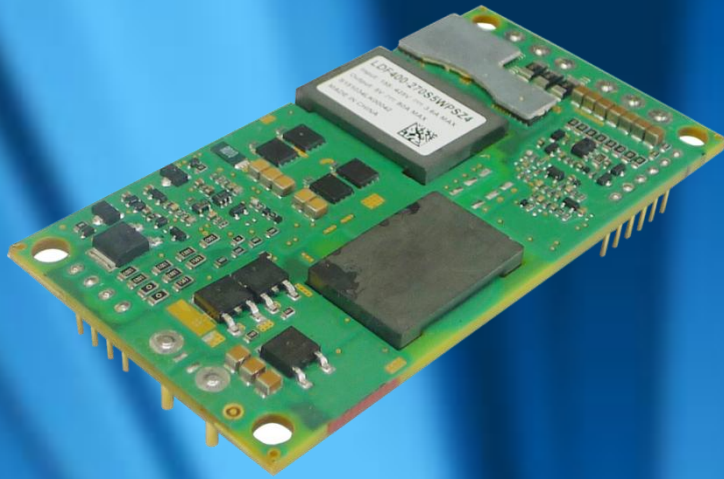
Suplet production lines include power module and embedded power system. Suplet offers various power solutions for global engineers, which promotes faster and more flexible design, and makes the product development easier to be completed.



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- LDF SERIES(Open frame)



- LDM SERIES(Alu-Baseplate)

Full-Brick Power Supplies

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
- RoHS2.0



General Specifications

Input Characteristics

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

Output Characteristic

Parameter	Specifications
Output power Note①	400W
Output voltage Note①	5Vdc
Output voltage precision	±1%
Output voltage trim logic Note②	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

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

Note② Refer to the production naming rules

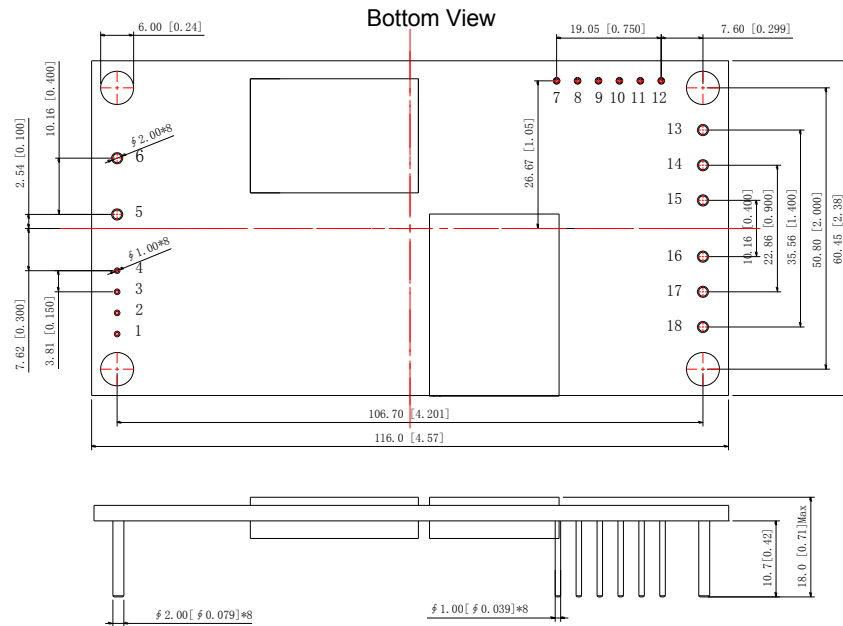
General Characteristics

Parameter	Specifications
Efficiency	90%
Operating ambient temperature	-55℃~+100℃
Storage temperature	-65℃~+135℃
Switching Frequency	250-350kHz
Temperature coefficient	200PPM
Isolation voltage	4250Vdc
Isolation resistance	100MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	1.2Mhours
Packaging	Through-Hole

Protection Characteristic

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

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 datasheet is subject to change without notice, please visit our official website www.suplet.com for the latest information and refer to the user manual for more details.

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
- RoHS2.0



General Specifications

Input Characteristics

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

Output Characteristic

Parameter	Specifications
Output 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

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

Note② Refer to the production naming rules

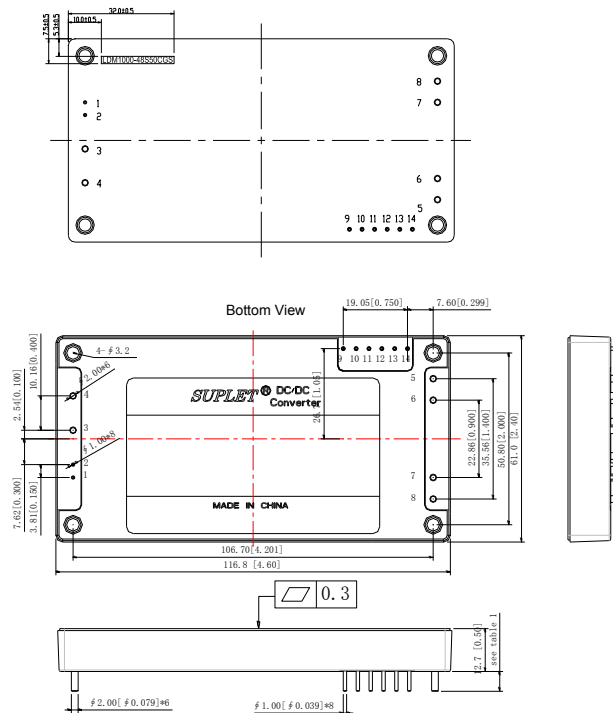
General Characteristics

Parameter	Specifications
Efficiency	94.5%
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching Frequency	200-280kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	1.5Mhours min.
Packaging	Through-Hole

Protection Characteristic

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

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	IOG	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
LDM1000-48S50CGS	36-75Vdc	50Vdc	20A	1000W	94.5%	Full brick

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- LDFH Series



- LDG&LDGH&LDM Series

Half-Brick Power Supplies

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
- RoHS2.0



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)

Output Characteristic

Parameter	Specifications
Output power Note①	75-1000W
Output voltage Note①	3.3/5//9/10/12/24/28/31/48Vdc
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.)

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

Note② Refer to the production naming rules

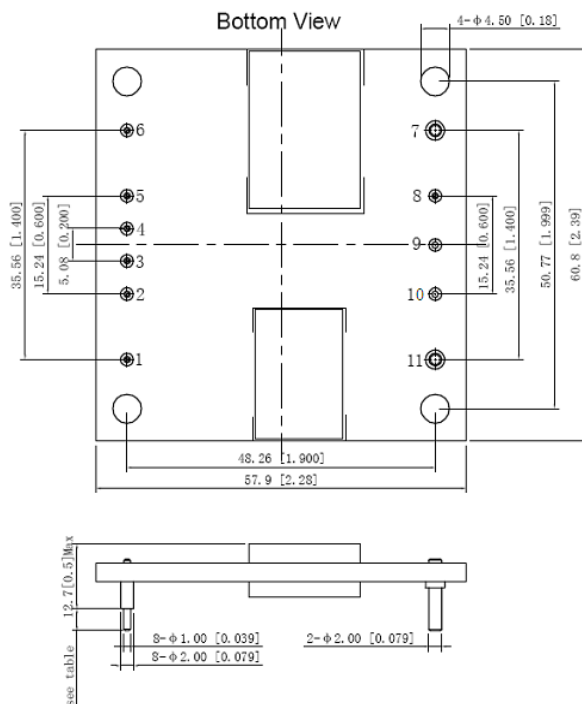
General Characteristics

Parameter	Specifications
Efficiency	95.5%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching Frequency	150-400kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	30MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	400khours min.
Packaging	Through-Hole

Protection Characteristic

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

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

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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)
- IUVP, OVP, OTP, OCP, SCP
- RoHS2.0



General Specifications

Input Characteristics

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

Output Characteristic

Parameter	Specifications
Output power Note①	75-700W
Output voltage Note①	5/12/15/24/28/48/50Vdc
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	±3.0%Vo/250us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	120mV(typ.)

General Characteristics

Parameter	Specifications
Efficiency	94.5%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching frequency	200-450kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	30MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	400khours min.
Packaging	Through-Hole

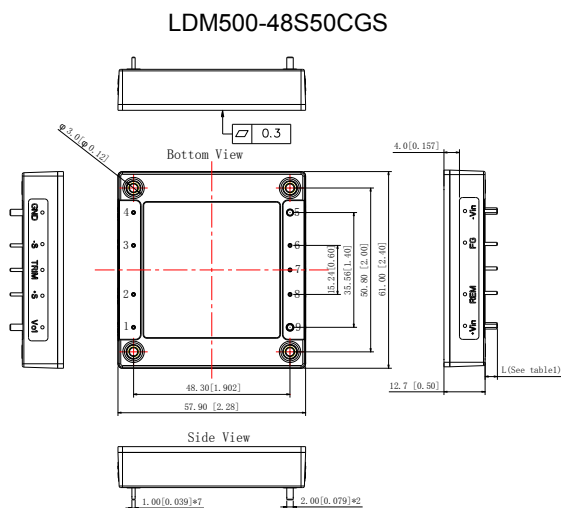
Protection Characteristic

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

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	REM	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

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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
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristic

Parameter	Specifications
Efficiency	96.8%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching Frequency	105-400kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	30MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	1.5Mhours min.
Packaging	Through-Hole

Output Characteristic

Parameter	Specifications
Output power Note①	45-800W
Output voltage Note①	1.2/1.5/1.8/3.3/5/10.8/12/24/28/50 Vdc
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.)

Protection Characteristic

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

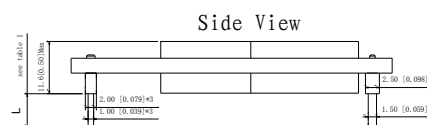
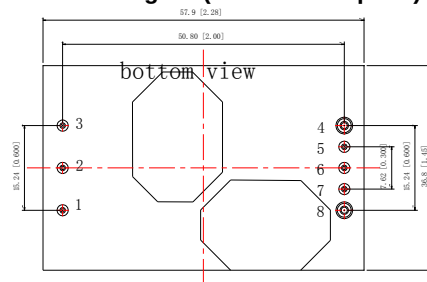
Note① Refer to order-information list in the following page for specific values of input and output

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 (c543de50-24s5)	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)



Unit:mm[inch]

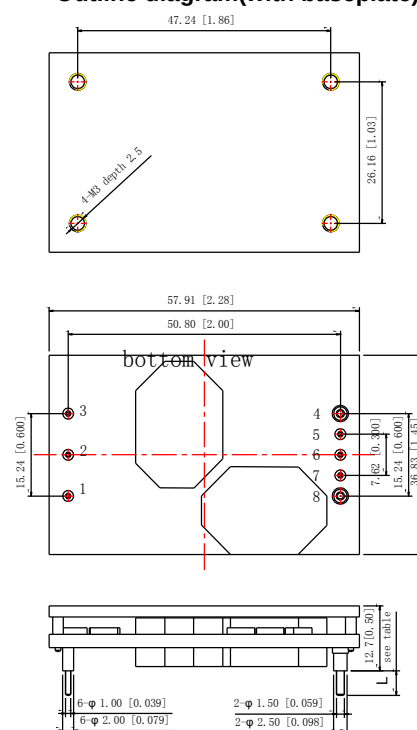
Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	-Vin	Negative input voltage
4	GND	Negative output voltage
5	-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(with baseplate)



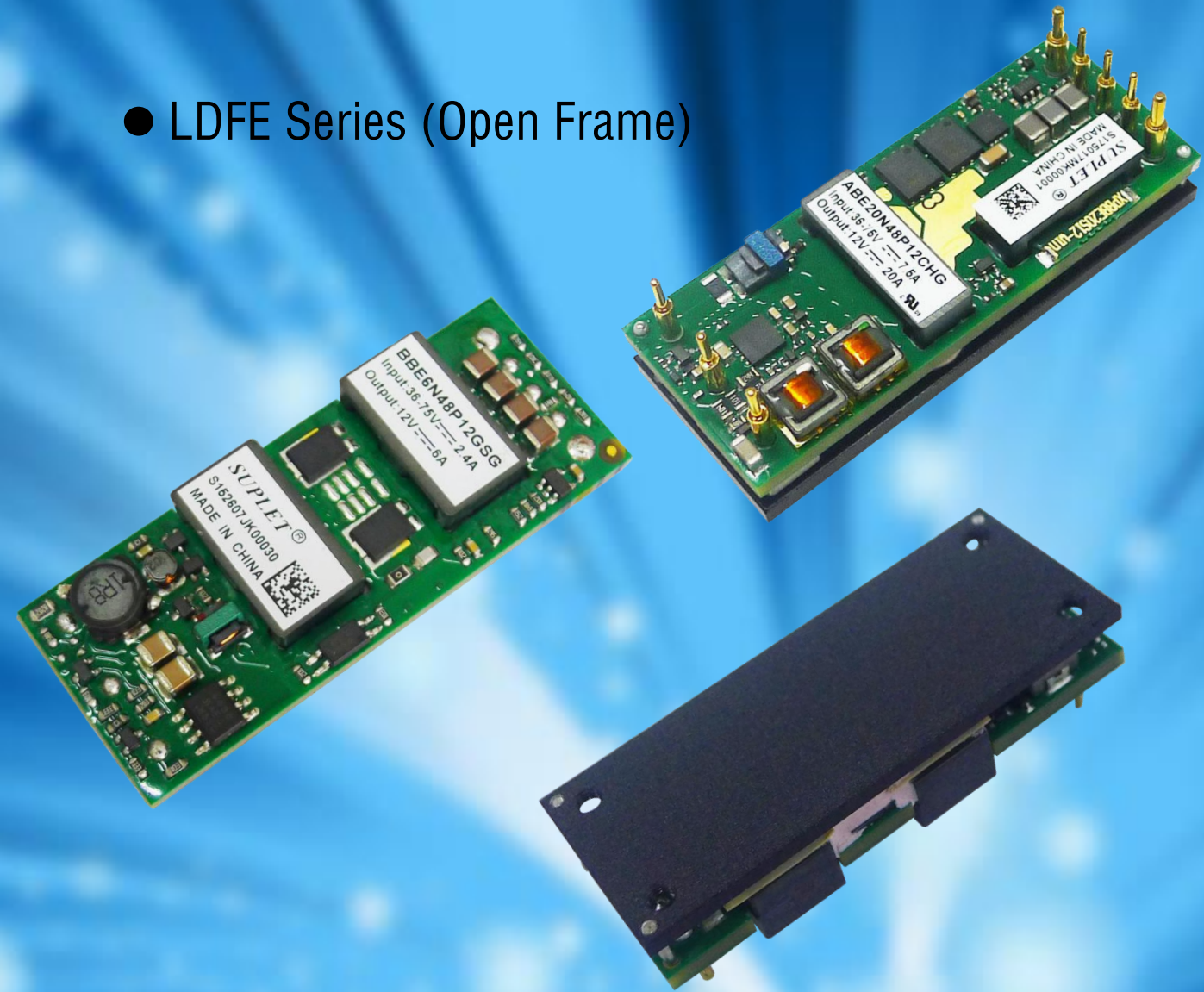
Unit:mm[inch]

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	-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 datasheet is subject to change without notice, please visit our official website www.suplet.com for the latest information and refer to the user manual for more details.

- ABE Series (Open Frame with Baseplate, I/O Isolated)
- BBE Series (Open Frame without Baseplate, I/O Isolated)
- LDFE Series (Open Frame)



Eighth-Brick Power Supplies

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
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

Parameter	Specifications
Efficiency	94.5%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching Frequency	150-210kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	3.2Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole or SMD

Output Characteristics

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.)

Protection Characteristics

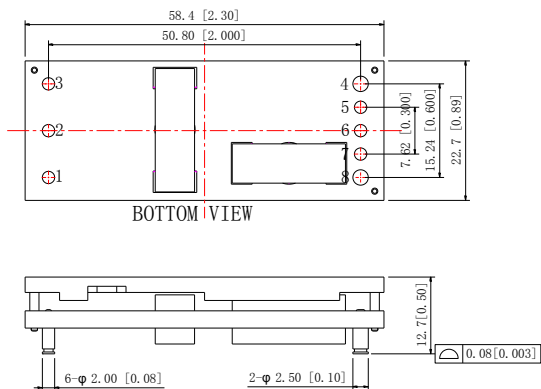
Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

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

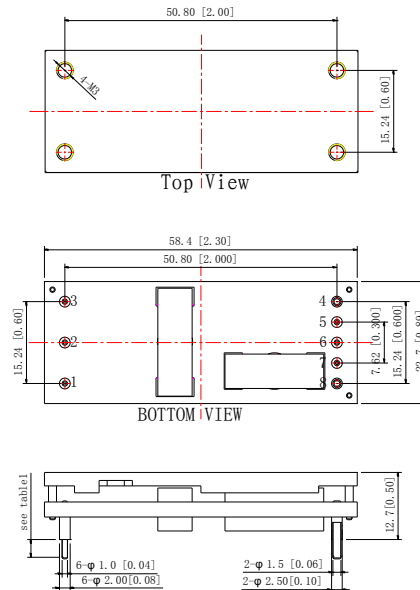
Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])

Outline diagram (Surface mounting version)



Outline diagram (Through-hole mounting version)



Pin Designations

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

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Features

- Industry standard “Eighth-Brick” footprint
- Up to 60A 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
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

Parameter	Specifications
Efficiency	94.5%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching frequency	110-420kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	2Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole or SMD

Output Characteristic

Parameter	Specifications
Output power Note①	72-300W
Output voltage Note①	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.)

Protection Characteristic

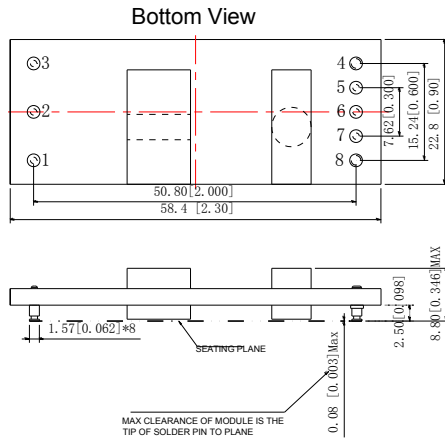
Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

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

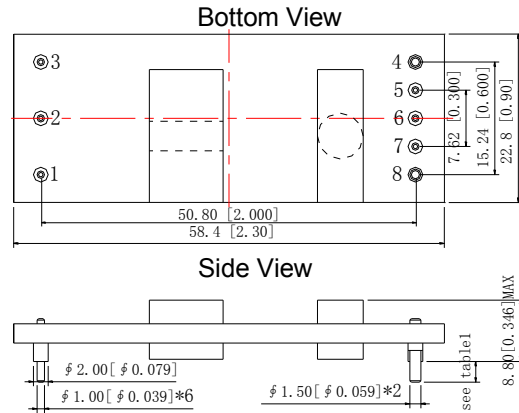
Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])

Outline diagram (Surface mounting version)



Outline diagram (Through-hole mounting version)



Pin Designations

Pin No.	Symbol	Function
1	+Vin	Positive input voltage
2	REM	Remote control
3	-Vin	Negative input voltage
4	GND	Negative output voltage
5	-SENSE	Negative remote compensate
6	TRIM	Output voltage trim
7	+SENSE	Positive remote compensate
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
BBE35N48P3V3BHW	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
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

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Features

- Industry standard “Eighth-Brick” footprint
- Up to 30A output current
- High efficiency up to 94%
- Low output ripple and noise
- Excellent thermal performance
- Adjustable output voltage(-20%~+10%Vo)
- IUVP, OVP, OTP,OCP, SCP
- RoHS2.0



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)

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.)

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

Note② Refer to the production naming rules

General Characteristics

Parameter	Specifications
Efficiency	94%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching Frequency	202-390kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	2Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole

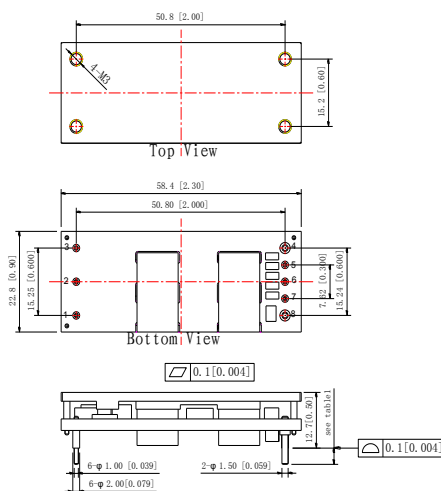
Protection Characteristic

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

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	1A	55	90%
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
1	+Vin	Positive input voltage
2	REM	Remote control
3	Vin	Negative input voltage
4	GND	Negative output voltage
5	-SENSE	Negative remote compensate
6	TRIM	Output voltage trim
7	+SENSE	Positive remote compensate
8	Vo1	Positive output voltage

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- ABS Series

(Open Frame with Baseplate, I/O Isolated)



- BBS Series

(Open Frame without Baseplate, I/O Isolated)

Sixteenth-Brick Power Supplies

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)
- IUVP, OVP, OTP,OCP, SCP
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

Parameter	Specifications
Efficiency	92.5%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching Frequency	250-350kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	3.2Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole or SMD

Output Characteristic

Parameter	Specifications
Output power Note①	50-100W
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/200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV

Protection Characteristic

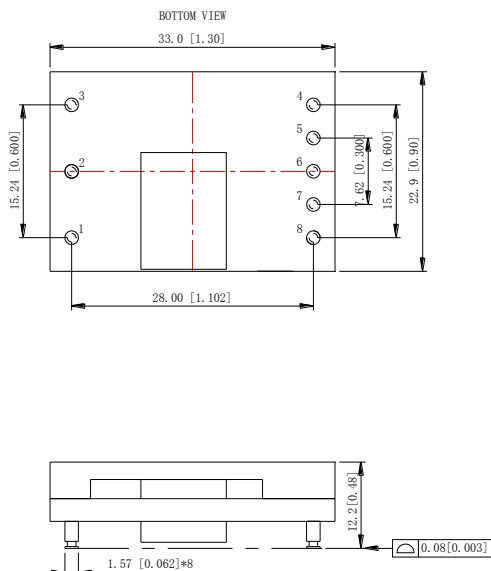
Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

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

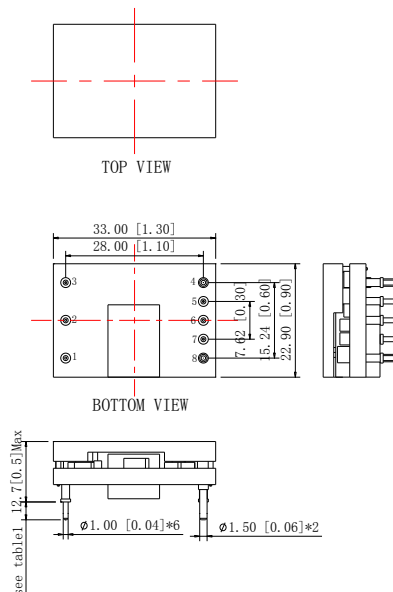
Note② Refer to the production naming rules

Outline Diagram (Unit:mm[inch])

Outline diagram (Surface mounting version)



Outline diagram (Through-hole mounting version)



Pin Designations

Pin No.	Symbol	Function
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
ABS10N48P5CHG	36-75Vdc	5Vdc	10A	50W	90%	Sixteenth-Brick
ABS7P48P12IHG	36-75Vdc	12Vdc	7A	84W	91%	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

Note: All information contained in this datasheet is subject to change without notice, please visit our official website www.suplet.com for the latest information and refer to the user manual for more details.

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
- RoHS2.0



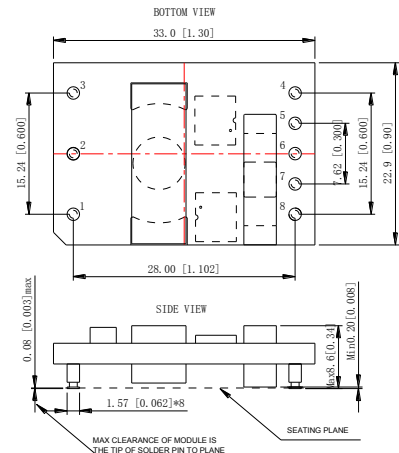
Order information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical dimensions
BBS2N48P12BTG	36-75Vdc	12Vdc	2A	24W	89%	Sixteenth-Brick
BBS2N48P12BHGA	36-75Vdc	12Vdc	2A	24W	90%	Sixteenth-Brick
BBS2N48P15BHG	36-75Vdc	15Vdc	2A	30W	89%	Sixteenth-Brick
BBS10N48P3V3BTG	36-75Vdc	3.3Vdc	10A	33W	91.5%	Sixteenth-Brick
BBS10N48P3V3CTG	36-75Vdc	3.3Vdc	10A	33W	91.5%	Sixteenth-Brick
BBS10N48P3V3GSG	36-75Vdc	3.3Vdc	10A	33W	91.5%	Sixteenth-Brick
BBS3N24P15FHE	18-36Vdc	15Vdc	3A	45W	88%	Sixteenth-Brick
BBS10N48P5BHGW	18-75Vdc	5Vdc	10A	50W	90%	Sixteenth-Brick
BBS10N48P5GSG	36-75Vdc	5Vdc	10A	50W	90%	Sixteenth-Brick
BBS15N48P3V3BHGW	18-75Vdc	3.3Vdc	15A	50W	90.5%	Sixteenth-Brick
BBS15N48P3V3BTG	36-75Vdc	3.3Vdc	15A	50W	90%	Sixteenth-Brick
BBS15N48P3V3GSG	36-75Vdc	3.3Vdc	15A	50W	90%	Sixteenth-Brick
BBS15N48P3V3GSGW	18-75Vdc	3.3Vdc	15A	50W	90.5%	Sixteenth-Brick
BBS4N48P12BTG	36-75Vdc	12Vdc	4.17A	50W	90%	Sixteenth-Brick
BBS12N48P4V2BHGW	18-75Vdc	4.2Vdc	12.5A	52.5W	90%	Sixteenth-Brick
BBS10N24P6FHE	18-36Vdc	6Vdc	10A	60W	92.5%	Sixteenth-Brick
BBS12N24P5FHE	18-36Vdc	5Vdc	12A	60W	91.5%	Sixteenth-Brick
BBS12N48P5BTG	36-75Vdc	5Vdc	12A	60W	91%	Sixteenth-Brick
BBS12N48P5FHE	36-75Vdc	5Vdc	12A	60W	89%	Sixteenth-Brick
BBS12P48P5BTG	36-75Vdc	5Vdc	12A	60W	91%	Sixteenth-Brick
BBS5N24P12FHE	18-36Vdc	12Vdc	5A	60W	89%	Sixteenth-Brick
BBS20N24P3V3FHE	18-36Vdc	3.3Vdc	20A	66W	89%	Sixteenth-Brick
BBS17N48P5BHG	36-75Vdc	5Vdc	17A	75W	90%	Sixteenth-Brick
BBS25N48P3V3BHG	36-75Vdc	3.3Vdc	25A	82.5W	91.5%	Sixteenth-Brick
BBS7N48P12BTG	36-75Vdc	12Vdc	7A	84W	91%	Sixteenth-Brick
BBS17N24P5FHE	18-36Vdc	5Vdc	17A	85W	91.5%	Sixteenth-Brick
BBS3N48P30BHGA	36-75Vdc	30Vdc	3A	90W	93.5%	Sixteenth-Brick
BBS8N24P12FHE	18-36Vdc	12Vdc	8A	96W	89%	Sixteenth-Brick
BBS8N48P12BHGA	36-75Vdc	12Vdc	8.3A	99.6W	92.5%	Sixteenth-Brick
BBS20N48P5BHGA	36-75Vdc	5Vdc	20A	100W	92%	Sixteenth-Brick
BBS8N48P12CHGA	36-75Vdc	12Vdc	8.3A	100W	92.5%	Sixteenth-Brick
BBS25N48P4V2BHGA	36-75Vdc	4.2Vdc	25A	105W	92%	Sixteenth-Brick

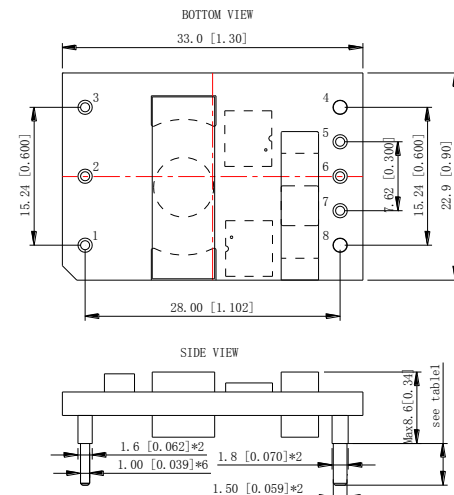
Note:

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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

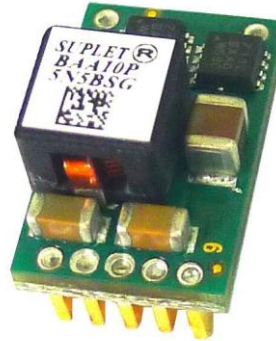
Non-isolated Power Supplies



- BAA Series (Open Frame without Baseplate, 16.51x10.42mm)
- BAB Series (Open Frame without Baseplate, 20.3x11.4x5.97mm)
- BAK Series (Open Frame without Baseplate, 38.1x22.1x9.00mm)
- BAM Series (Open Frame without Baseplate, 33.0x13.46mm)
- DAC Series (Glue-injecting Encapsulation, 16.26x16.26mm)
- DAX Series (Glue-injecting Encapsulation, Unstandardized Size)
- LDE&LDEH Series (SIP Non-isolated)
- LDES Series (SMT Non-isolated)

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
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

Parameter	Specifications
Efficiency	93%
Operating ambient temperature	-40°C-+85°C
Storage temperature	-55°C-+125°C
Switching frequency	620kHz
Temperature coefficient	200PPM
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	8Mhours min. Telcordia SR332 Issue 3, 40°C
Packaging	Through-Hole or SMD

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.)

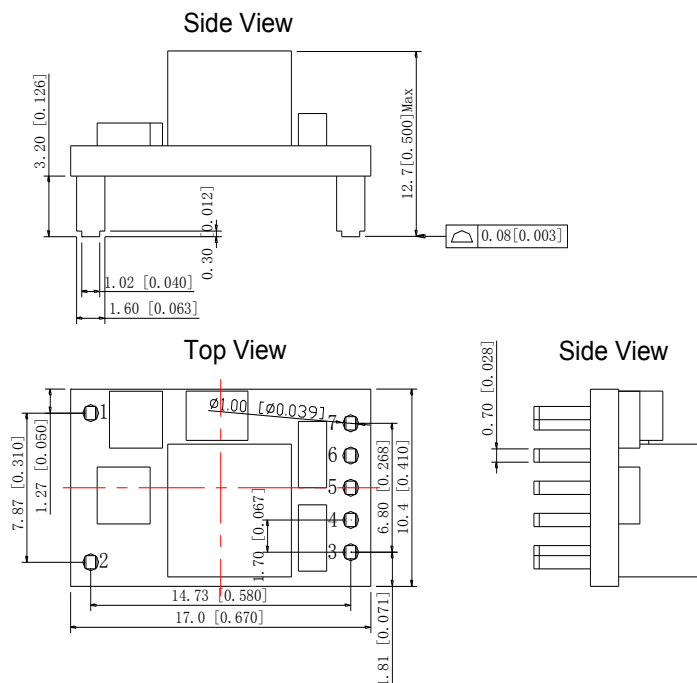
Protection Characteristic

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

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

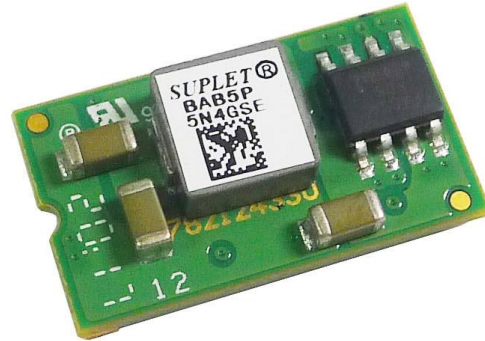
Order information

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

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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
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

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	IEC/UL/EN 60950-1, GB4943
MTBF	8Mhours min. Telcordia SR332 Issue 3, 40°C
Packaging	SMD

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.)

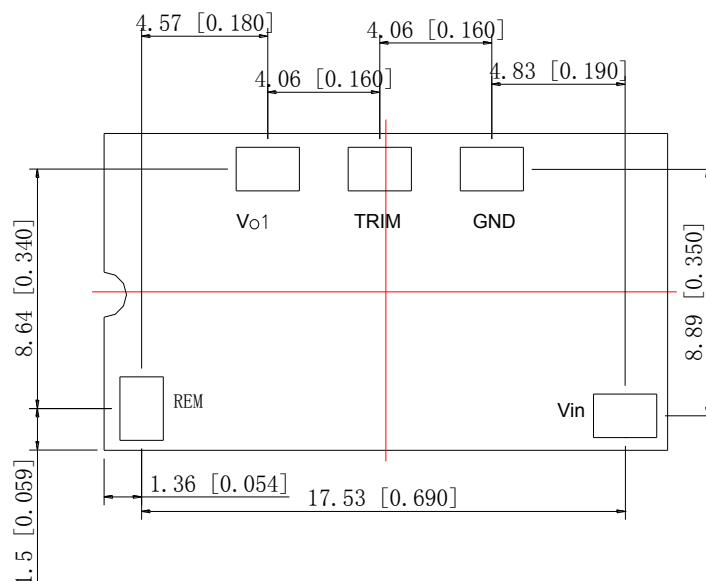
Protection Characteristic

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

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

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BAK Series

DC-DC Non-isolated Converter

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
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

Parameter	Specifications
Efficiency	95%
Operating ambient temperature	-40°C~+85°C
Storage temperature	-540°C~+125°C
Switching frequency	300kHz
Temperature coefficient	200PPM
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	2.79Mhours min. Telcordia SR332 Issue 3, 40°C
Packaging	Through-Hole

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.)

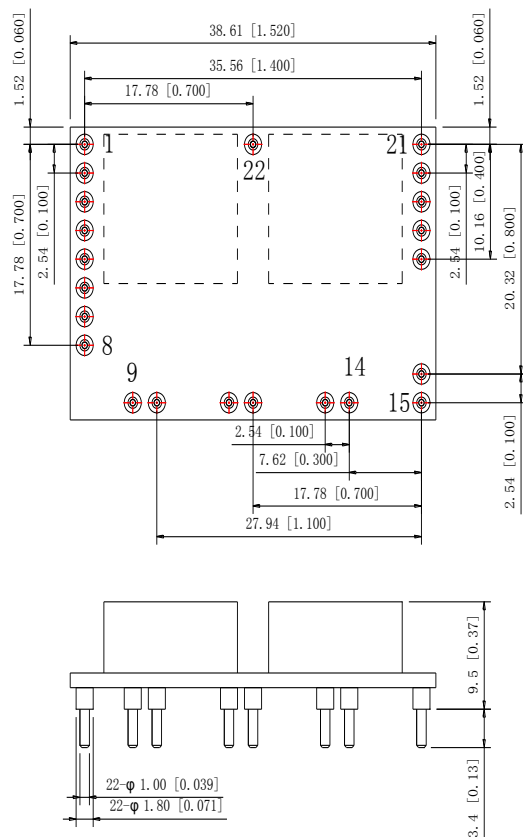
Protection Characteristic

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

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

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BAM Series

DC-DC Non-isolated Converter

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
- RoHS2.0



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)

General Characteristics

Parameter	Specifications
Efficiency	94.7%
Operating ambient temperature	-40℃-+85℃
Storage temperature	-55℃-+125℃
Switching frequency	330-635kHz
Temperature coefficient	200PPM
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	6.5Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	SMD

Output Characteristic

Parameter	Specifications
Output power Note①	80-120W
Output voltage trim logic Note②	Positive(P), Negative(N)
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.)

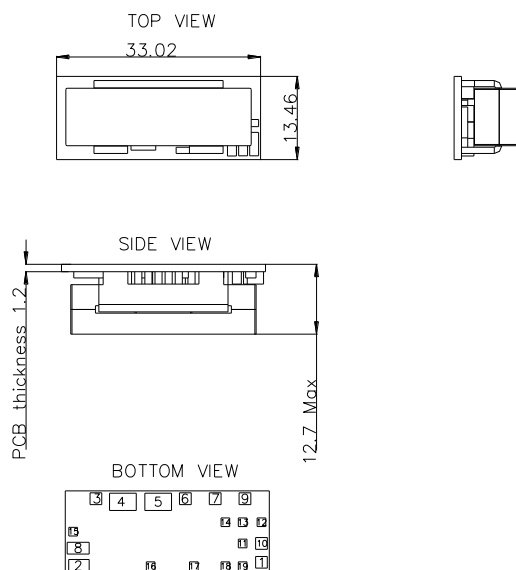
Protection Characteristic

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

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

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DAC Series

DC-DC Non-isolated Converter

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
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

Parameter	Specifications
Efficiency	91%
Operating ambient temperature	-40℃~+85℃
Storage temperature	-40℃~+125℃
Switching frequency	640-960kHz
Temperature coefficient	200PPM
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	6.5Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	SMD

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.)

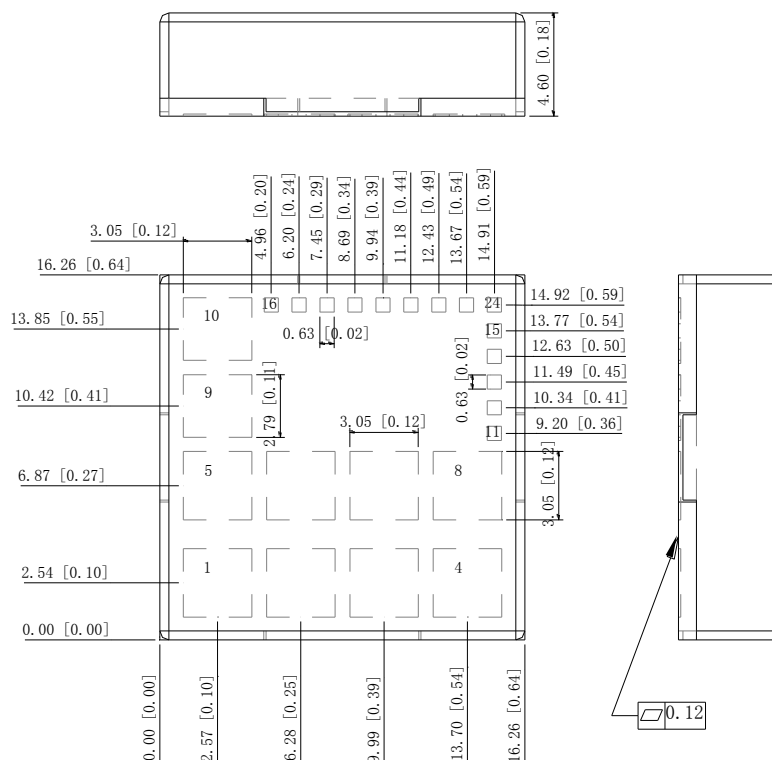
Protection Characteristic

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

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	V _O	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	V _{in}	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 datasheet is subject to change without notice, please visit our official website www.suplet.com for the latest information and refer to the user manual for more details.

DAX Series

DC-DC Non-isolated Converter

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
- RoHS2.0



General Specifications

Input Characteristics

Parameter		Specifications
Input voltage Note①		7.0-14.5Vdc
		8.0-14.5Vdc
Inhibit Control Note②	Inhibit High Voltage	1.8Vdc- Open
	Inhibit Low Voltage	-0.3-+0.6Vdc

General Characteristics

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	IEC/UL/EN 60950-1, GB4943
MTBF	27.6Mhours min. Telcordia SR332 Issue 3, 40°C
Packaging	SMD

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

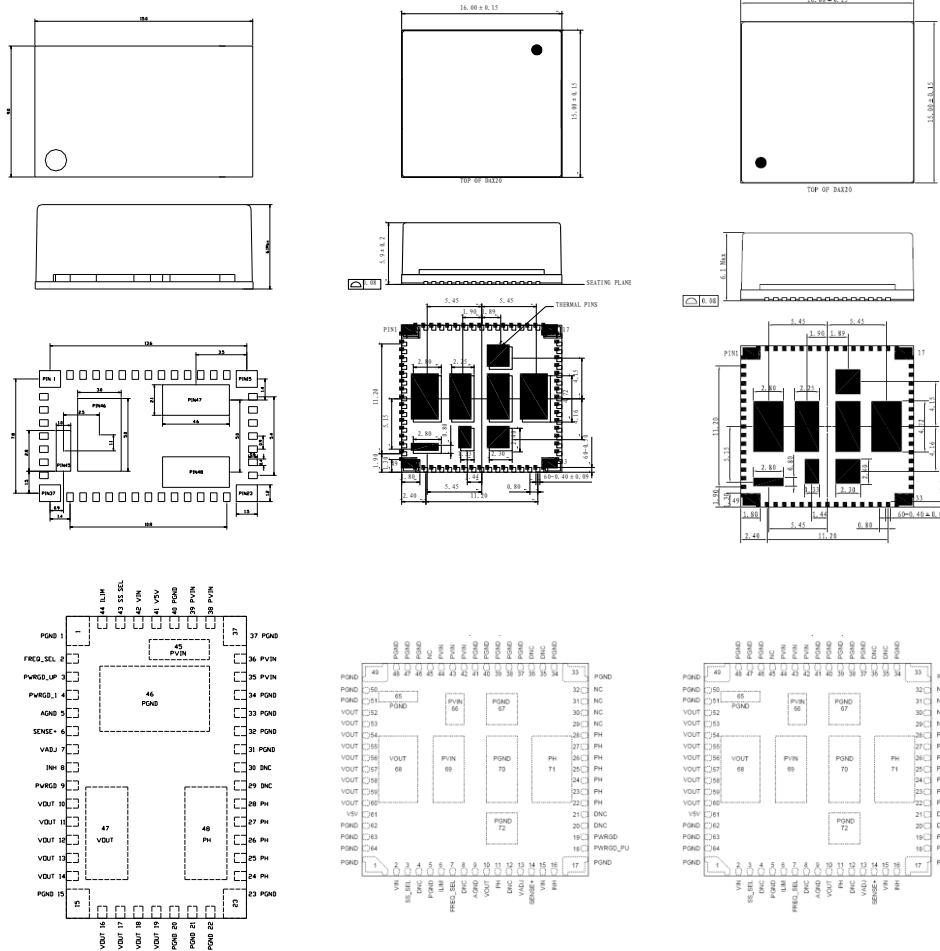
Protection Characteristic

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

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])



DAX10U12P0V6GSG

DAX20U12P0V6GSG

DAX30U12P0V6GSG

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

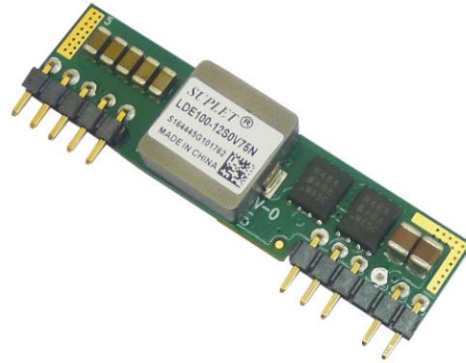
Order information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
DAX10U12P0V6GSG	8.0-14.5Vdc	1.2-5.5Vdc	10A	55W	91%	15.0*9.0*6.1mm
DAX20U12P0V6GSG	7.0-14.5Vdc	0.6-3.6Vdc	20A	72W	94%	16.00*15.00*5.9mm
DAX30U12P0V6GSG	7.0-14.5Vdc	0.6-3.6Vdc	30A	108W	94%	16.0*15.0*6.1mm

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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
- RoHS2.0



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)

General Characteristics

Parameter	Specifications
Efficiency	95%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching frequency	250-350kHz
Temperature coefficient	200PPM
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	2Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole

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.)

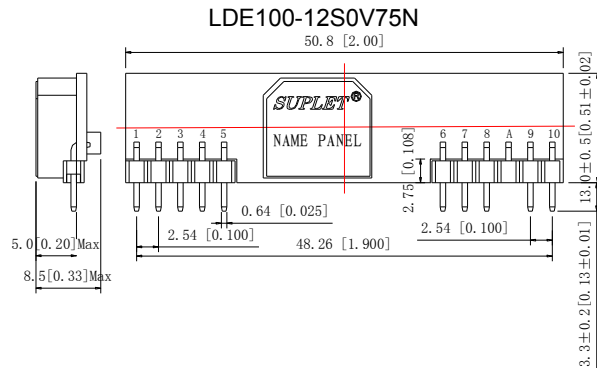
Protection Characteristic

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

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

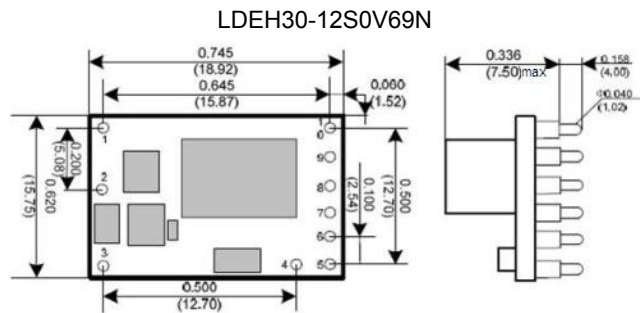
Note② Refer to the production naming rules

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



Pin Designations

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

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LDES Series

DC-DC Non-isolated Converter

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
- RoHS2.0



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)

General Characteristics

Parameter	Specifications
Efficiency	94%(max.)
Operating ambient temperature	-40℃-+85℃
Storage temperature	-55℃-+125℃
Switching frequency	250-350kHz
Temperature coefficient	200PPM
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	2Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	SMD

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.)

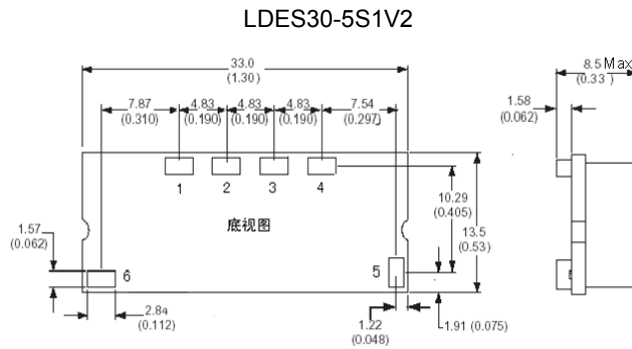
Protection Characteristic

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

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])



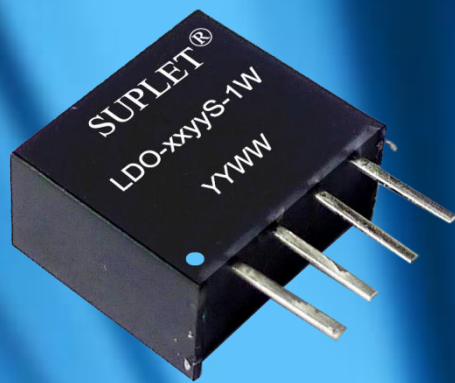
Pin Designations

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

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- Micro-Power Series(DC-DC)



- Micro-Power Series(AC-DC)

Micro-Power Supplies

Features

- Wide input voltage range:85Vac~265Vac
- High power density
- Small footprint
- Short circuit protection
- RoHS2.0



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	85-265 Vac
Input frequency range	47-65Hz
Remote control Note②	-

General Characteristics

Parameter	Specifications
Efficiency	64%(max.)
Operating ambient temperature	-10℃~+70℃
Storage temperature	-40℃~+105℃
Switching frequency	115kHz
Isolation voltage	2500Vac
Safety	IEC60950-1 2005
MTBF	300khours

Output Characteristic

Parameter	Specifications
Output power Note①	2W
Output voltage Note①	3.65Vdc
Output voltage precision	±1.5%Vo
Line regulation	±0.2%
Load regulation	±1%
Ripple and noise	35mV(typ.)

EMC

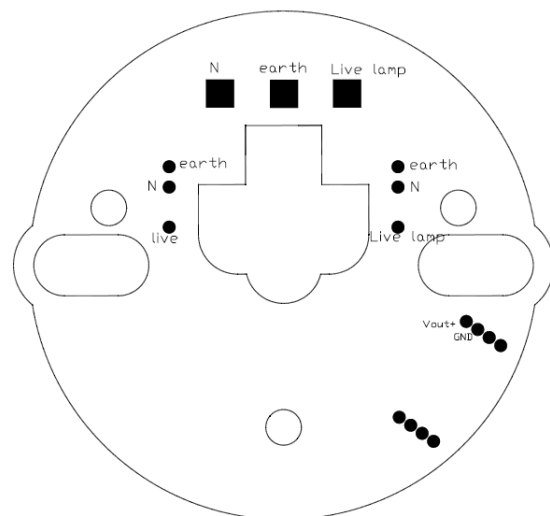
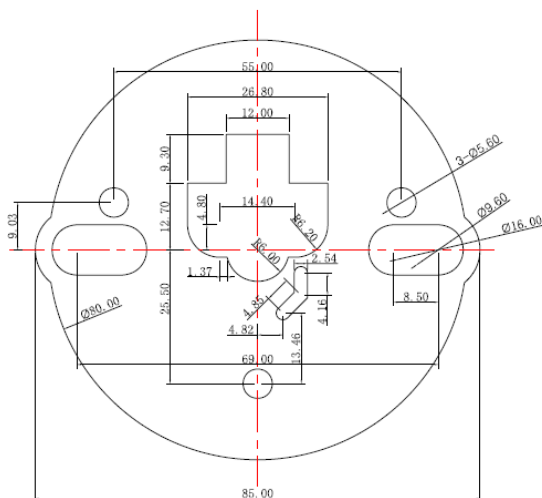
	Parameter	Specifications
EMI	Conducted emission	EN55022 CLASSB
	Radiated emission	EN55022 CLASSB
EMS	ESD	IEC/EN 61000-4-2, ±6KV contact discharge; ±8KV air discharge criteria B
	Radiated immunity	IEC/EN61000-4-3 10V/m, criteria A
	EFT	IEC/EN61000-4-4 ±2KV, criteria B.
	Surge	IEC/EN61000-4-5 ±1KV, criteria B.
	Conducted immunity	IEC/EN61000-4-6 10Vr.m.s criteria A
	Power frequency magnetic field immunity test	IEC/EN61000-4-8 10A/m, criteria A
	DIP	IEC/EN61000-4-11 0%-70%, criteria B

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])

LAO-220W04F-2W



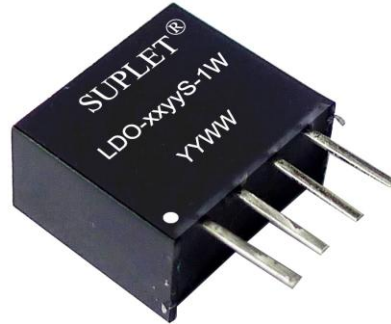
Order information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LAO-220W04F-2W	85-265 Vac	3.65Vdc	0.5A	2W	64%	85x80x15.5mm
LAO-220W04F-2W-AU	85-265 Vac	3.65Vdc	0.5A	2W	64%	85x80x15.5mm
LAO-220W04FM-2W	85-265 Vac	3.65Vdc	0.5A	2W	64%	54x54x32mm

Note: All information contained in this datasheet is subject to change without notice, please visit our official website www.suplet.com for the latest information and refer to the user manual for more details.

Features

- Miniature SIP,DIP,SMD package
- Single output/dual outputs
- Industry standard footprint
- Isolation voltage: 1000Vdc, 1500Vdc
- Power density: 1.8W/cm³
- ESD±6kV
- No external component
- Low cost
- RoHS2.0



General Specifications

Input Characteristics

Parameter		Specifications
Input voltage ^{Note①}		-
Output power ^{Note①}		0.02-5W
Output voltage ^{Note②}		3.3/5/9/12/24Vdc
Line regulation	For Vin change of +/- 1%	±1.5%Vo(max.)
Load regulation	10%-100% load(3.3Vo)	18%Vo(typ.)
	10%-100% load (5Vo)	15%Vo(typ.)
	10%-100% load (≥9Vo)	12%Vo(typ.)
Ripple and noise	20M bandwidth	150mV _{p-p} (max.)
Temperature coefficient	100% load	500PPM/°C (max.)

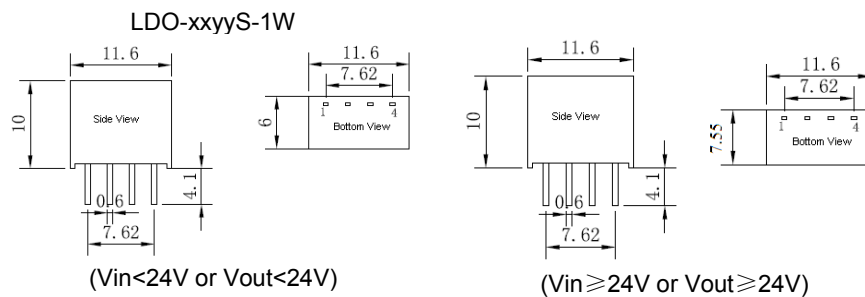
Note① Refer to order-information list in the following page for specific values of input and output

Note② Refer to the production naming rules

General Characteristics

Parameter	Specifications
Efficiency	81%
Operating temperature	-40°C-+85°C
Storage temperature	-55°C-+130°C
Case material	Plastic(UL94-V0)
Cooling	Natural cooling
Safety	IEC60950-1 2005
MTBF	1,000khours(min.)
Switching frequency	100Khz(typ.)

Outline Diagram (Unit:mm)



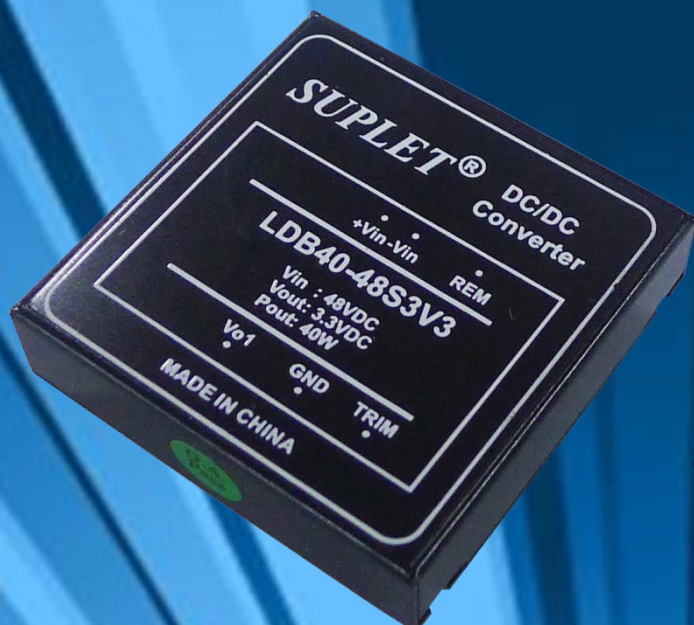
Pin Designations

Pin No.	Symbol	Function
1	-Vin	Negative input voltage
2	+Vin	Positive input voltage
3	-Vo	Negative output voltage
4	+Vo	Positive output voltage

Order information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDO-0305S-W02	2.97-3.63Vdc	5Vdc	0.005A	0.02W	/	11.6*6*10mm
LDO-0305S-1W	2.97-3.63Vdc	5Vdc	0.2A	1W	76%	11.6*6*10mm
LDO-0505M-1W	4.5-5.5Vdc	5Vdc	200A	1W	78%	11.6*6*10mm
LDO-0505S-1W	4.5-5.5Vdc	5Vdc	0.2A	1W	78%	11.6*6*10mm
LDO-0505S-1W-S	4.5-5.5Vdc	5Vdc	200A	1W	71%	11.60*60*10.00mm
LDO-05R05LS-1W	4.75-5.25Vdc	5Vdc	0.2A	1W	70%	19.50*6.0*10.00mm
LDO-1205S-1W	12Vdc	5Vdc	0.2A	1W	78%	11.6*6*10mm
LDS-0505LS-1W	4.5-5.5Vdc	5Vdc	0.2A	1W	78%	19.50*6.00*10.00mm
LDS-05R05LS-1W	4.75-5.25Vdc	5Vdc	0.2A	1W	70%	19.50*6.0*10.00mm
LDS-2412LS-1W-S	21.6-26.4Vdc	12Vdc	0.084A	1W	78%	19.50*7.00*10.00mm
LDS-2424LS-1W-S	21.6-26.4Vdc	24Vdc	0.042A	1W	77%	19.50*7.00*10.00mm
LDS-24W24CS-1W	18-36Vdc	24Vdc	0.042A	1W	77%	22.00*9.80*12.0mm
LDO-0509M-1W	5Vdc	9Vdc	0.11A	1W	79%	13.70*7.00*8.00
S78T3-500	4.75-28Vdc	3.3Vdc	0.5A	1.8W	90%	11.6*7.50*10.20mm
LDO-05R05LS-2W	4.75-5.25Vdc	5Vdc	0.4A	2W	67%	19.50*7.0*10.00mm
LDO-1205S-2W	10.8-13.2Vdc	5Vdc	0.4A	2W	79%	11.6*7.55*10mm
LDS-24V05CS-2W	9-36Vdc	5Vdc	0.4A	2W	74%	22.0*9.5*12.0mm
LDS-2424LS-2W-S	21.6-26.4Vdc	24Vdc	0.084A	2W	81%	19.50*7.00*10.00mm
LDO-48W05CS-3W	36-72Vdc	5Vdc	0.6A	3W	81%	22.00*9.80*12.0mm
LDS-2412LS-3W	21.6-26.4Vdc	12Vdc	0.25A	3W	80%	19.50*7.00*10.00mm
LDS-24W03CS-3W	18-36Vdc	3.3Vdc	0.76A	3W	75%	22.00*9.80*12.0mm
LDS-24W05CS-3W	18-36Vdc	5Vdc	0.6A	3W	80%	22.00*9.80*12.0mm
LDS-24W05LD-3W	18-36Vdc	5Vdc	0.6A	3W	81%	22.00*9.80*12.0mm
LDS-24W15LD-3W	18-36Vdc	15Vdc	0.2A	3W	86%	22.00*9.80*12.0mm
LDS-24W24CS-3W	18-36Vdc	24Vdc	0.125A	3W	83%	22.00*9.80*12.0mm
LDO-05W03LD-5W	4.5-9Vdc	3.3Vdc	1.2A	5W	74%	31.8*20.3*9.6mm

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● 2×2 Series



● 1×1 Series

Non-standard Power Supplies



● Non-standard Series



● Non-standard Series

1*1 inch Series

DC-DC Converter

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
- RoHS 2.0



General Specifications

Input Characteristics

Parameter	Specifications
Input voltage Note①	18-75Vdc
	36-75Vdc
Remote Control Note ②	Positive(P),Negative(N)

General Characteristics

Parameter	Specifications
Efficiency	88.5%(max.)
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching Frequency	300-500kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	6Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole or SMD

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	±5%Vo/200us@25%-50%-75% Io(max.) di/dt=2.5A/μs
Ripple and noise	80mV(typ.)

Protection Characteristic

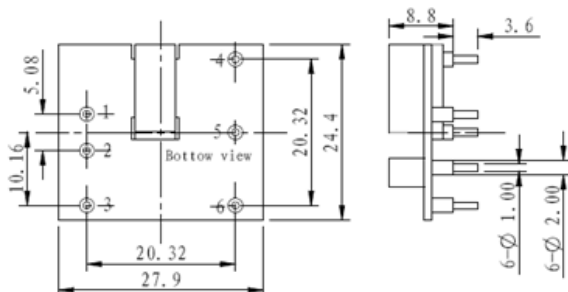
Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

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])

BBJ5N48N3V3BHGWA



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

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2*2 inch Series

DC-DC Converter

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)

General Characteristics

Parameter	Specifications
Efficiency	88%(max.)
Operating ambient temperature	-40℃~+70℃
Storage temperature	-40℃~+105℃
Switching Frequency	300kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	100MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	300khours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole or SMD

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.)

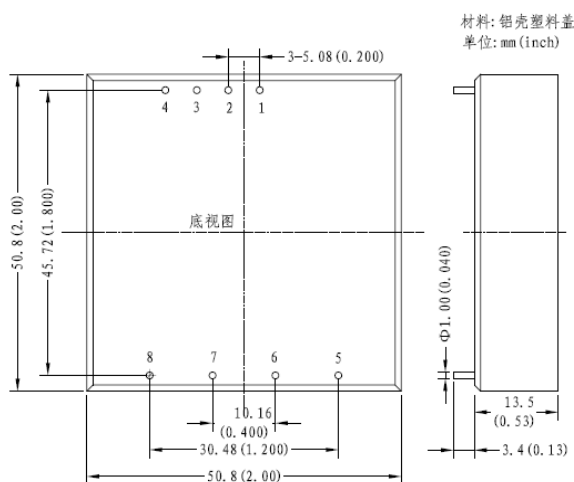
Protection Characteristic

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

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

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DIP24 Series

DC-DC Converter

Features

- DIP24 footprint
- Up to 1A output current
- High efficiency up to 78%
- Low output ripple and noise
- Excellent thermal performance
- IUVP, OVP, OTP,OCP, SCP
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

Parameter	Specifications
Efficiency	78%(max.)
Operating ambient temperature	-25℃-+55℃
Storage temperature	-25℃-+95℃
Switching Frequency	300kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	100MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	2Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole

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

Protection Characteristic

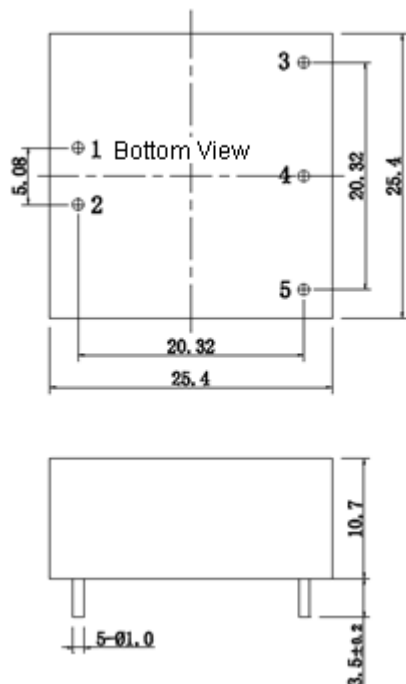
Parameter	Specifications
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery

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])

Unit:mm



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

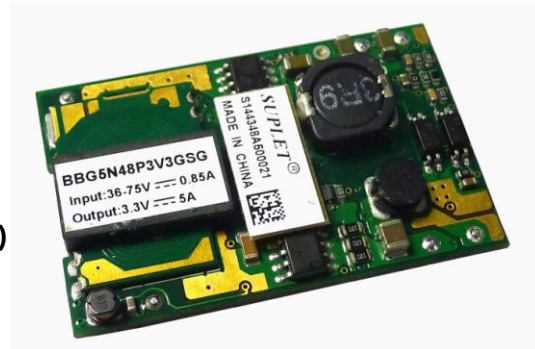
Order information

MPN	Input voltage	Output voltage	Output current	Power	Efficiency	Physical Dimensions
LDB5-48S5	36-72Vdc	5.05Vdc	1A	5W	78%	DIP24

Note: All information contained in this datasheet is subject to change without notice, please visit our official website www.suplet.com for the latest information and refer to the user manual for more details.

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
- RoHS2.0



General Specifications

Input Characteristics

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

General Characteristics

Parameter	Specifications
Efficiency	94%
Operating ambient temperature	-40℃~+85℃
Storage temperature	-55℃~+125℃
Switching Frequency	280-500kHz
Temperature coefficient	200PPM
Isolation voltage	1500Vdc
Isolation resistance	10MΩ (min.)
Safety	IEC/UL/EN 60950-1, GB4943
MTBF	1.4Mhours min. Telcordia SR332 Issue 3, 40℃
Packaging	Through-Hole or SMD

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.)

Protection Characteristic

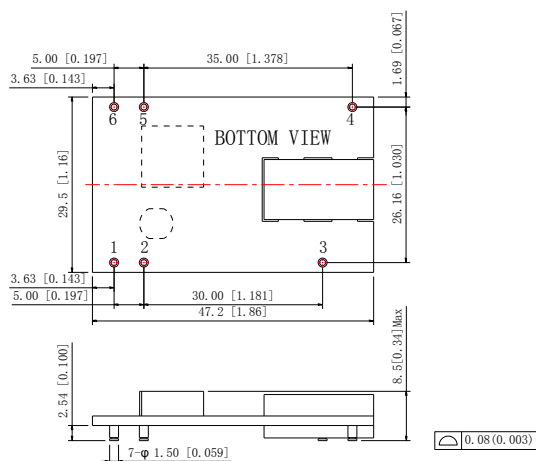
Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

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])

BBG5N48P3V3GSG



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

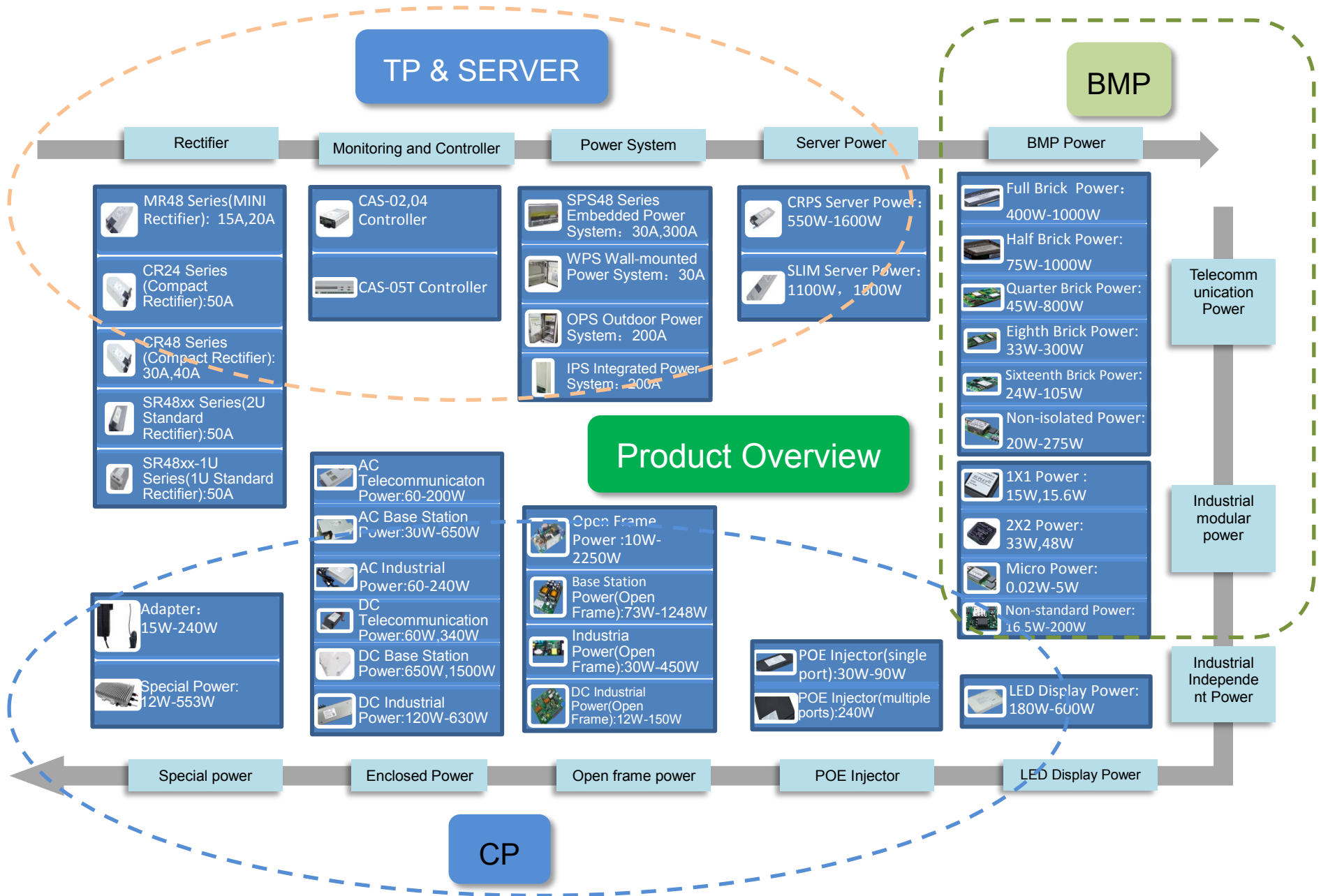
Order information

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 datasheet is subject to change without notice, please visit our official website www.suplet.com for the latest information and refer to the user manual for more details.

Naming Rules for Suplet Standard Products (Basic Version.2019V2)

1	Typical Power	L	D	F	(H)	450	-48	S	28	(CGSZ3)
		Sulet Power	A:AC/DC Series D:DC/DC Series C/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	F:Full Brick H:Half Brick Q:Quarter Brick E:Eighth 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 witout heatsink) P: Negative remote control(The default is Positive) 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-isoalted, wide input voltage& adjustable output voltage B: I/O isolated	E:Eighth 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 U:Without remote control	Input Voltage(V) -48: 48Vdc	output voltage trim logic P:Positive Logic N:Negative Logic U:Without Trim function	Output Voltage(V)	H:Through-hole S:SMT G:RoHS6 E:RoHS5 A/B/C/D/E/F:Different pin length
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	PS		60	-48	(B)	(CR4830)		
		S:Embedded Power System W:Wall-Mounted Power System O:Outdoor Cabinet Power System I:Integrated Power System	PS:PowerSystem RS:Rectifier-system(Without controller)		Output Current(A)	Nominal Output Voltage(V) -48=48Vdc -24=24Vdc	Additional items(Optional)	The rectifier used in the power system		
6	Server Power Supply	SAC	1600	-220	D	12	-12	(-054)		(-AA)
		SAC:AC+(DC) input SDC:DC input	Power(W)	Input Voltage(Vac) Vac -220: 220Vac	Types of output: D:Dual output	Main output voltage(Vdc)	Standby output voltage(Vdc) -12=12Vdc (-3V3=3.3Vdc)	Server Powre Supply Code The default is Intel CRPS Standard (-054:facebook SLIM 054 standard)		Additional items: AA- Ahead Aircooling RA- Rear Aircooling





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