

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°C~+85°C
Storage temperature	-55°C~+125°C
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°C
Packaging	Through-Hole or SMD

Output Characteristic

Parameter	Specifications
Output power Note①	0.02-5W
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

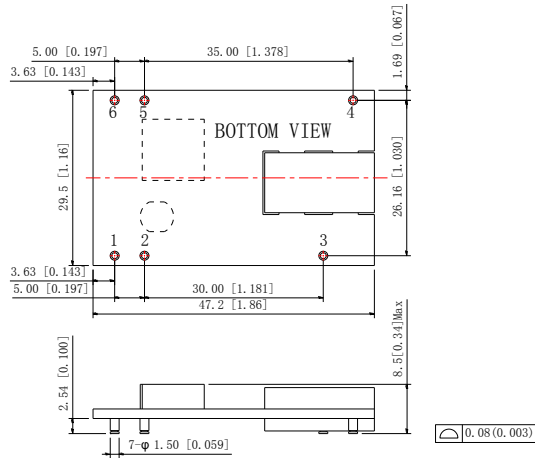
Parameter	Specifications
Input under voltage protection	Yes
Output over voltage protection	Hiccup mode Automatic recovery
Over current protection	Hiccup mode Automatic recovery
Short circuit protection	Hiccup mode Automatic recovery
Over temperature protection	Hiccup mode Automatic recovery

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.