

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



General Specifications

Input Characteristics

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

Output Characteristic

Parameter	Specifications
Output power <small>Note①</small>	30-105W
Output voltage <small>Note①</small>	3.3/4.2/5/6/12/15/30Vdc
Output voltage precision	±2%Vo
Output voltage trim logic <small>Note②</small>	正逻辑(P), 负逻辑(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 Characteristics

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	IEC/UL/EN 60950-1, GB4943
MTBF	2Mhours min.
Packaging	Through-Hole or SMD

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

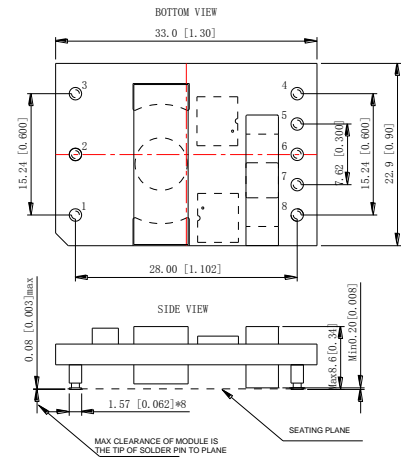
Order information

产品型号	输入电压	输出电压	输出电流	输出功率	效率	尺寸(mm)
BBS2N48P12BTG	36-75Vdc	12Vdc	2A	24W	89%	1/16
BBS2N48P12BHGA	36-75Vdc	12Vdc	2A	24W	90%	1/16
BBS2N48P15BHG	36-75Vdc	15Vdc	2A	30W	89%	1/16
BBS10N48P3V3BTG	36-75Vdc	3.3Vdc	10A	33W	91.5%	1/16
BBS10N48P3V3CTG	36-75Vdc	3.3Vdc	10A	33W	91.5%	1/16
BBS10N48P3V3GSG	36-75Vdc	3.3Vdc	10A	33W	91.5%	1/16
BBS3N24P15FHE	18-36Vdc	15Vdc	3A	45W	88%	1/16
BBS10N48P5BHGW	18-75Vdc	5Vdc	10A	50W	90%	1/16
BBS10N48P5GSG	36-75Vdc	5Vdc	10A	50W	90%	1/16
BBS15N48P3V3BHGW	18-75Vdc	3.3Vdc	15A	50W	90.5%	1/16
BBS15N48P3V3BTG	36-75Vdc	3.3Vdc	15A	50W	90%	1/16
BBS15N48P3V3GSG	36-75Vdc	3.3Vdc	15A	50W	90%	1/16
BBS15N48P3V3GSGW	18-75Vdc	3.3Vdc	15A	50W	90.5%	1/16
BBS4N48P12BTG	36-75Vdc	12Vdc	4.17A	50W	90%	1/16
BBS12N48P4V2BHGW	18-75Vdc	4.2Vdc	12.5A	52.5W	90%	1/16
BBS10N24P6FHE	18-36Vdc	6Vdc	10A	60W	92.5%	1/16
BBS12N24P5FHE	18-36Vdc	5Vdc	12A	60W	91.5%	1/16
BBS12N48P5BTG	36-75Vdc	5Vdc	12A	60W	91%	1/16
BBS12N48P5FHE	36-75Vdc	5Vdc	12A	60W	89%	1/16
BBS12P48P5BTG	36-75Vdc	5Vdc	12A	60W	91%	1/16
BBS5N24P12FHE	18-36Vdc	12Vdc	5A	60W	89%	1/16
BBS20N24P3V3FHE	18-36Vdc	3.3Vdc	20A	66W	89%	1/16
BBS17N48P5BHG	36-75Vdc	5Vdc	17A	75W	90%	1/16
BBS25N48P3V3BHG	36-75Vdc	3.3Vdc	25A	82.5W	91.5%	1/16
BBS7N48P12BTG	36-75Vdc	12Vdc	7A	84W	91%	1/16
BBS17N24P5FHE	18-36Vdc	5Vdc	17A	85W	91.5%	1/16
BBS3N48P30BHGA	36-75Vdc	30Vdc	3A	90W	93.5%	1/16
BBS8N24P12FHE	18-36Vdc	12Vdc	8A	96W	89%	1/16
BBS8N48P12BHGA	36-75Vdc	12Vdc	8.3A	99.6W	92.5%	1/16
BBS20N48P5BHGA	36-75Vdc	5Vdc	20A	100W	92%	1/16
BBS8N48P12CHGA	36-75Vdc	12Vdc	8.3A	100W	92.5%	1/16
BBS25N48P4V2BHGA	36-75Vdc	4.2Vdc	25A	105W	92%	1/16

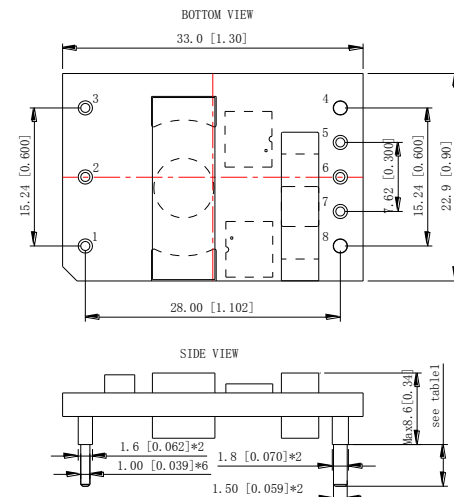
Note:

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.

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