

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 <small>Note①</small>	16-36Vdc
	18-36Vdc
	36-75Vdc
	16-40Vdc
	155-425Vdc
	200-400Vdc
	230-400Vdc
	240-280Vdc
Remote Control <small>Note②</small>	Positive (Blank), Negative (P)

Output Characteristic

Parameter	Specifications
Output power <small>Note①</small>	75-1000W
Output voltage <small>Note①</small>	3.3/5/9/10/12/24/28/31/48Vdc
Output voltage precision	±3%
Output voltage trim logic <small>Note②</small>	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 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

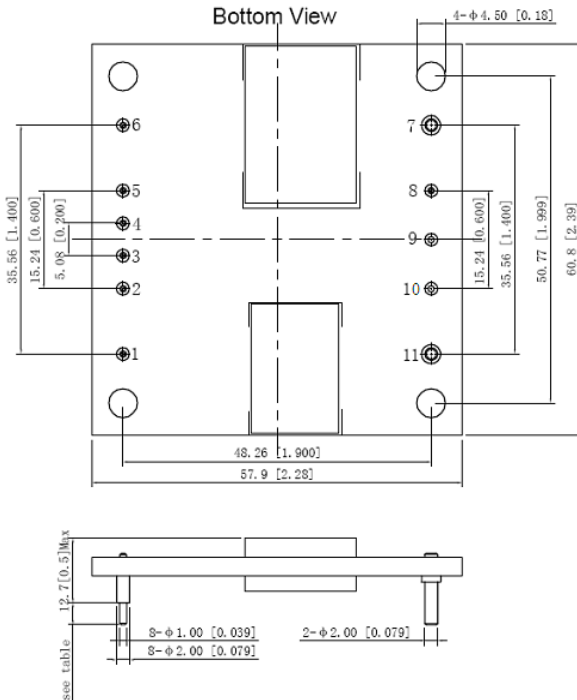
Protection Characteristic

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

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	NP	No pin
4	Share+	Positive current share
	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

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.