

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 <small>Note①</small>	18-36Vdc
	18-40Vdc
	18-75Vdc
	36-72Vdc
	36-75Vdc
	48-60Vdc
	49-54Vdc
Remote Control <small>Note②</small>	正逻辑(空), 负逻辑(P)

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	IEC/UL/EN 60950-1, GB4943
MTBF	1.5Mhours min.
Packaging	Through-Hole

Output Characteristic

Parameter	Specifications
Output power <small>Note①</small>	45-800W
Output voltage <small>Note①</small>	1.2/1.5/1.8/3.3/5/10.8/12/24/28/50 Vdc
Output voltage precision	±2%
Output voltage trim logic <small>Note②</small>	Positive (S), Negative (Blank)
Output voltage adjustment range	20%~+110%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

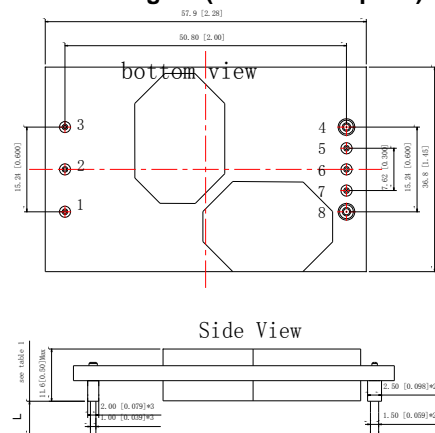
Note① Refer to order-information list in the following page for specific values of input and output

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]

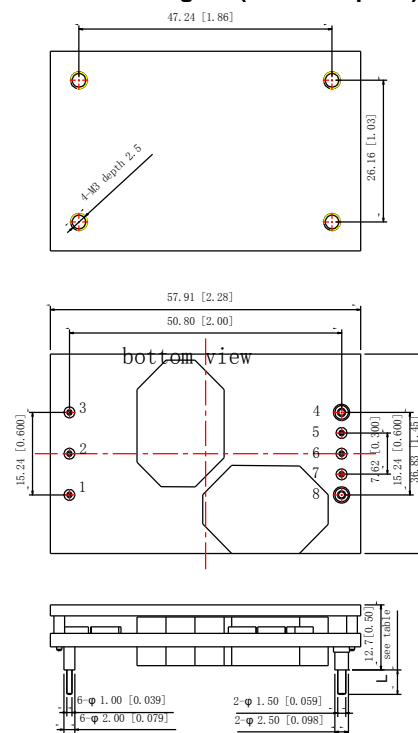
Pin Designations

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

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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.