

Power Module

Series: **FD (Half-brick)**

Type: **12V, 28V**

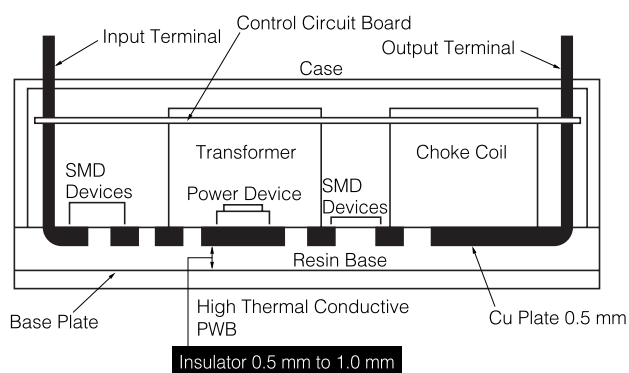
High efficiency and high reliability DC/DC converter of half-brick size which meets needs of small size, high power and decentralized power such as telecommunications equipment (transmission amplifier of wireless base station etc.)

Applied Safety Std. : UL60950, CSA22.2-60950
EN60950 (acquisition schedule)
Industrial Property : 16 Patents (Pending)

■ Features

- Making into high power (350 W in the half-brick size), high power density (7.8 W/cm³), high efficiency (91 % typ.) by adopting high thermal conductive PWB, and new low profile inductor.
- High reliability according to the high thermal conductive PWB which includes the I/O terminal where a large current flows.

■ Construction(Cross Section)



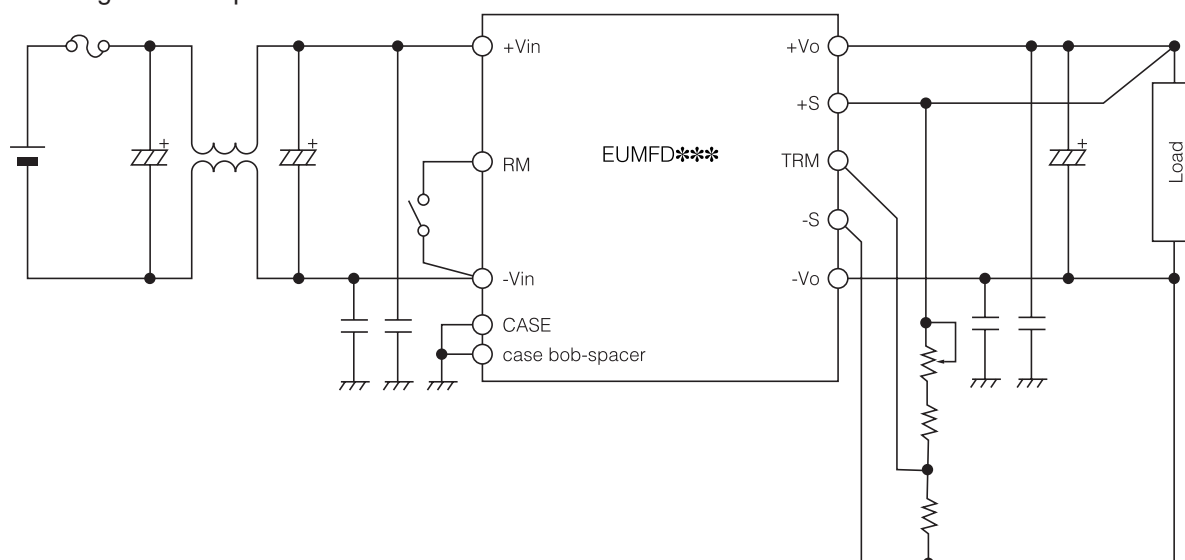
■ Recommended Applications

- Radio communication equipment
- Cable communication equipment
- For decentralized type power supply
- Server

■ Explanation of part numbers

1	2	3	4	5	6	7	8	9	10	11
E	U	M	F	D	3	0	Y	2	8	A
Product Code			Series Code		Output Power	Input Voltage	Output Voltage	Design No.		

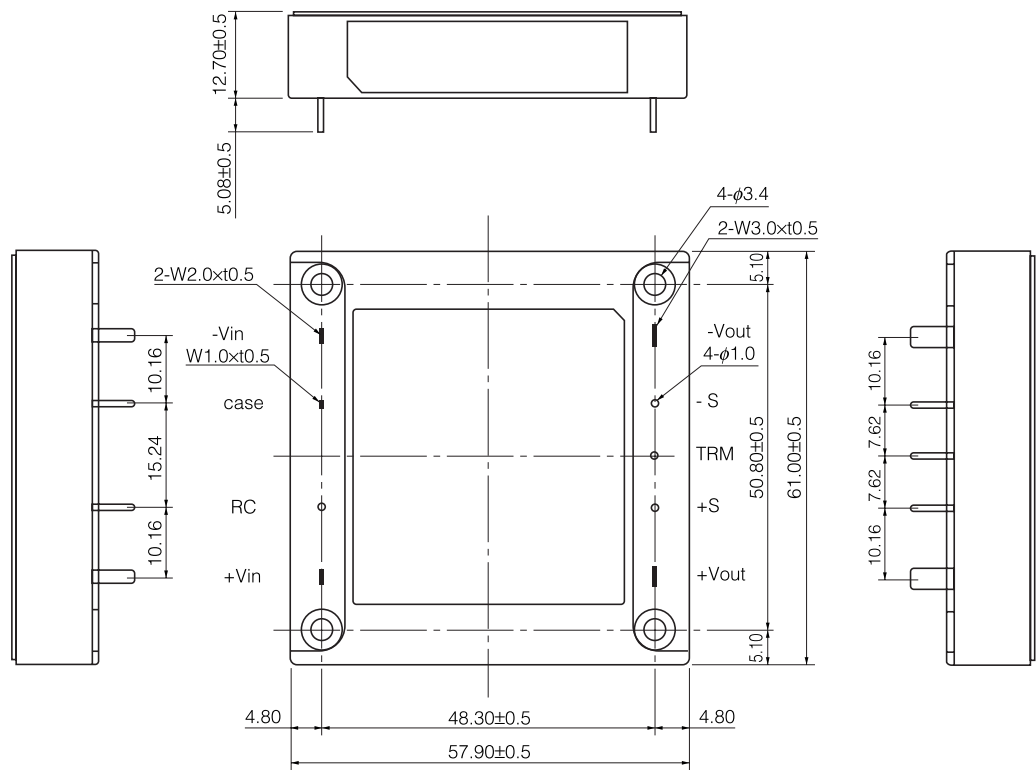
■ Block Diagram Example



■ Ratings(Typical Spec.)

Product No.		EUMFD30Y12A	EUMFD30Y28A	Condition
Input Conditions	Input Voltage	36 VDC to 72 VDC (Rated 48 VDC)		
	Input Current	5 A max.	5 A max.	Rated input and output
	Efficiency	89 % typ.	91 % typ.	Rated input and output
Output Conditions	Rated Output Voltage	12 V	28 V	
	Voltage Adjustable Range	9 V to 13.2 V	24 V to 30.8 V	
	Rated Output Current	25 A	12.5 A	
	max. Output Current	25 A	12.5 A	
	Line Regulation	150 mV	150 mV	
	Load Regulation	300 mV	300 mV	
	Ripple Noise Voltage	300 mV[p-p]	300 mV[p-p]	
Environment	Operating Temperature	-20 °C to 100 °C		Base plate temp.
	Operating Humidity	5 % to 85 %		Not be dewy
	Storage Temperature	-40 °C to 115 °C		
Insulation Spec.	Dielectric Withstanding Voltage	1500 VDC for 1 min. (Between input and output, Input and base plate)		Normal temp. Normal humidity
	Insulation Resistance	10 MΩ 500 VDC(Between input and output, input and base plate)		Normal temp. Normal humidity
Others	Attached Function	Over current protection, Over voltage protection, Over heat protection Remote ON/OFF, Remote sensing		
	Safety Standard	UL60950, CSA22.2-60950, EN60950		Acquisition schedule
	Size	W57.9 mm × D61 mm × H12.7 mm		
	Mass	130 g		

■ Dimensions in mm(not to scale)



Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.