

Scalable power supply solution breaking the boundaries of efficiency in high current applications



### Features:

- Passively cooled (Fan-less operation)
- MOSFET Synchronous Rectification
- Worldwide AC input range
- Built-in Active Power Factor Correction (PF>0.98)
- High reliability, MTBF>500K hours
- Protections: Short circuit, Over load/voltage/temperature
- Active inrush current limiting
- Remote Sense \*
- Remote ON/OFF \*
- 3 years warranty

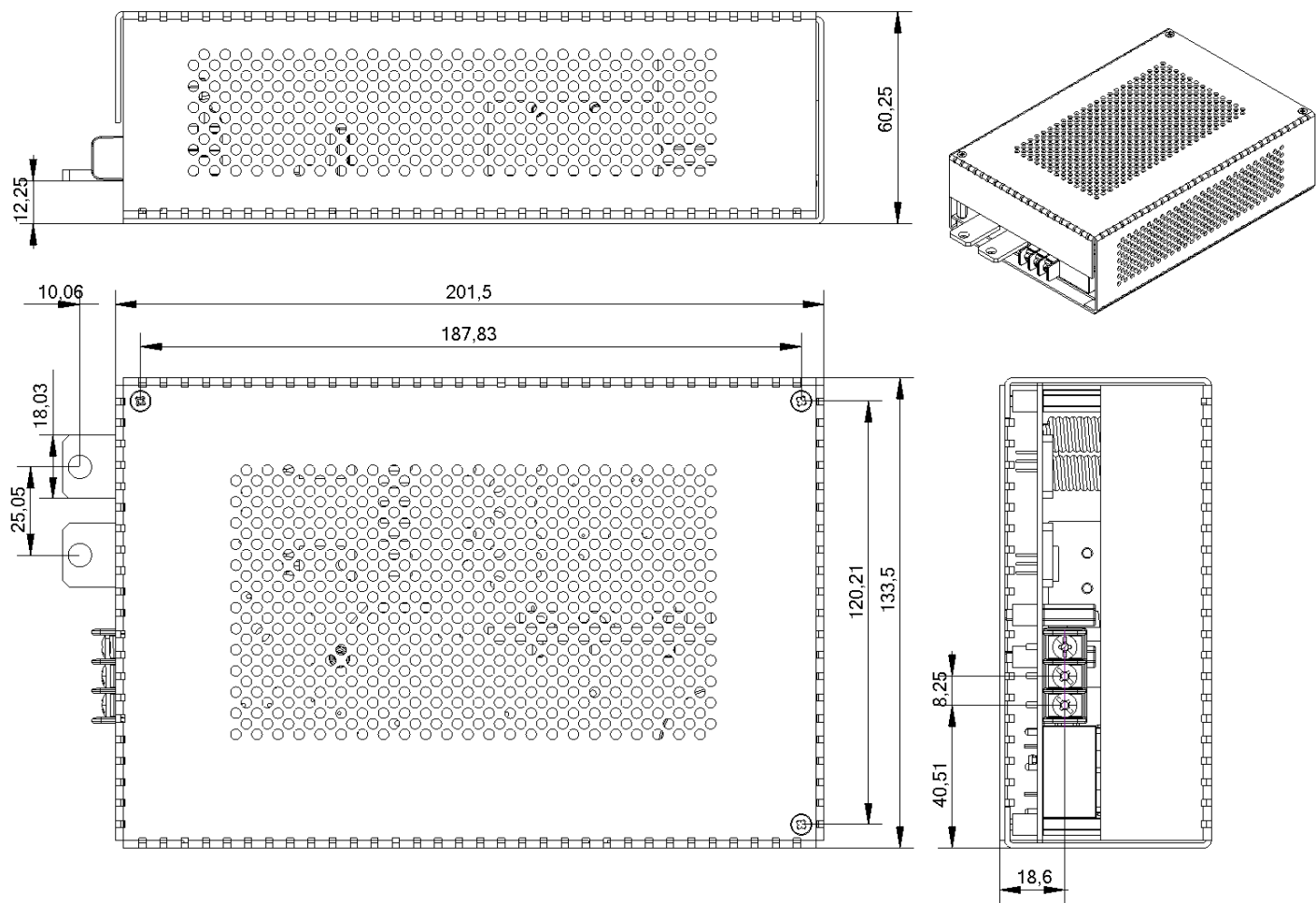


### SPECIFICATION

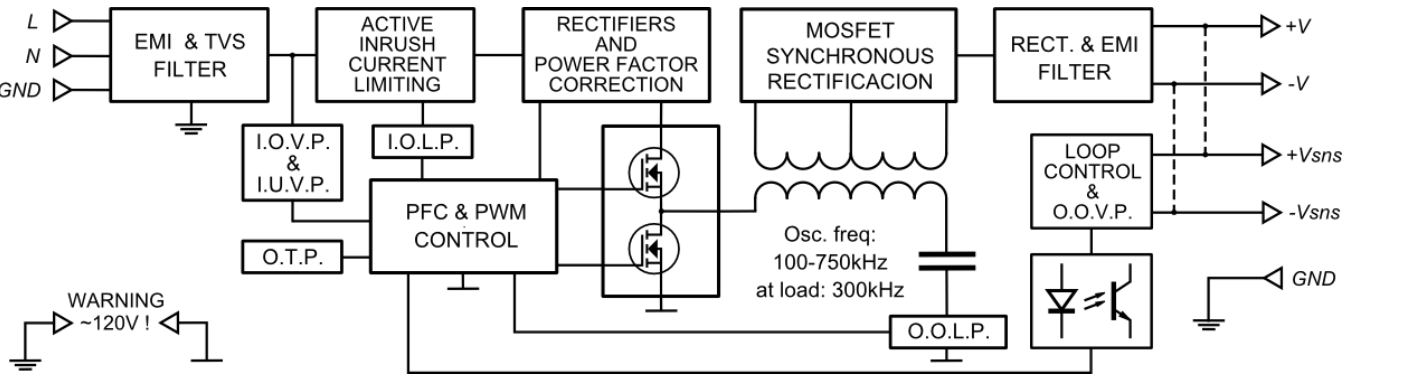
MODEL		EMD250W-12	EMD250W -24	EMD250W -36	EMD250W -48
OUPUT	DC VOLTAGE	12V	24V	36V	48V
	RATED CURRENT	21A	11A	7A	5.5A
	CURRENT RANGE	0~21A	0~11A	0~7A	0~5.5A
	RATED POWER	384W	384W	384W	384W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	VOLTAGE ADJ. RANGE	9 – 15.2V	18-30V	27-45V	36-60V
	VOLTAGE TOLERANCE Note.3	±1%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1500ms, 50ms at full load			
	HOLD UP TIME (typ.)	10ms at full load			
INPUT	VOLTAGE RANGE Note.5	90 ~ 264VAC 128 ~ 370VDC			
	FREQUENCY RANGE	47~63Hz			
	POWER FACTOR (typ.)	PF>0.98/230VAC PF>0.98/115VAC at full load			
	EFFICIENCY (typ.)	95%	95%	96%	96%
	AC CURRENT (typ.)				
	INRUSH CURRENT				
PROTECTION	LEAKAGE CURRENT	<3.5mA/240VAC			
	OVERLOAD	120 ~ 135 % rated output power			
	OVER VOLTAGE				
FUNCTION	OVER TEMPERATURE				
	REMOTE CONTROL	RC+/RC-: Short = power on ; Open = power off			
ENVIRONMENT	WORKING TEMPERATURE	-10 ~ +50°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMPERATURE , HUMIDITY	-20 ~ +85°C , 10 ~ 95% RH			
	TEMPERATURE COEFFICIENT	±0.03%/°C (0 ~ 50°C)			
SAFETY & EMC (Note.4)	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along XYZ axis			
	SAFETY STANDARDS				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
OTHERS	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3			
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A			
	MTBF	500 K hours min. MIL-HDBK-217F (25 )			
NOTE	DIMMENSION				
	PACKING				
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to EMI testing of component power supplies. 5. Derating may be needed under low input voltages. Please check the derating curve for more details.				

\*Available as option.

MECHANICAL SPECIFICATION



BLOCK DIAGRAM



DERATING CURVE

OUTPUT DERATING VS INPUT VOLTAGE