



Features:

- Universal AC input / full range
- Build-in active PFC function, PF >0.95
- High efficiency up to 89%
- Withstand 300VAC surge input for 5 seconds
- Protections: short circuit, overload, over voltage, over temperature
- Build-in constant current limiting circuit
- 1 U low profile 41mm
- Build-in cooling fan
- Build-in DC OK signal
- Build-in remote sense function

Model	MW300-PS5	MW300-PS12	MW300-PS15	MW300-PS24	MW300-PS36	MW300-PS48	
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURRENT	60A	27A	22A	14A	9A	7A
	CURRENT RANGE	0 – 60A	0 – 27A	0 - 22A	0 – 14A	0 – 9A	0 - 7A
	RATED POWER	300W	324W	330W	336W	324W	336W
	RIPPLE + NOISE MAX. 1	90mVp-p	120mVp-p	150mVp-p	150mVp-p	250mVp-p	250mVp-p
	VOLTAGE ADJ. RANGE	4.3-5.8V	10.2-13.8V	13.5-18V	21.6-28.8V	28.8-39.6V	40.8-55.2V
	VOLTAGE TOLERANCE 2	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP – RISE TIME	1000ms, 50ms /230VAC 2500ms, 50ms/115VAC at full load					
HOLD UP TIME (typ.)	16ms/230VAC 16ms/115VAC at full load						
INPUT	VOLTAGE RANGE 4	85-264VAC 120-370VDC					
	FREQUENCY FACTOR	47-63Hz					
	POWER FACTOR (typ.)	PF>0.95/230VAC PF>0.99/115VAC at full load					
	EFFICIENCY (typ.)	82%	86%	88%	87%	88%	89%
	AC CURRENT (typ.)	3.5A/115VAC		1.8A/230VAC			
	INRUSH CURRENT	35A/115VAC		70A/230VAC			
LEAKAGE CURRENT	<1.2mA / 240VAC						
PROTECTION	OVERLOAD	105-135% rated output power Protection type: Constant current limiting, recovers automatically after fault condition is removed					
	OVER VOLTAGE	6-7V	14.4-16.8V	18.8-21.8V	30-34.8V	41.4-48.6V	57.6-67.2V
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down					
FUNCTION	DC OK SIGNAL	PSU turns on : 3.3-5.6V ; PSU turns off : 0-1V					
	FAN CONTROL (Typ.)	Load 35±15% or RTH2 ≥50°C Fan on					
ENVIRONMENT	WORKING TEMP.	-40 - +70°C (refer to “derating curve”)					
	WORKING HUMIDITY	20-90% RH non-condensing					
	STORAGE TEMP. HUMIDITY	-40 - +85°C 10-95 RH					
	TEMP. COEFFICIENT	±0.03% / °C (0-50°C)					
	VIBRATION	10-500Hz, 5G 10 min./1 cycle, 60 min. each along X, Y, Z axes					
SAFETY AND EMC 3	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved					
	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					
	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, EN55024, EN61000-6-2, heavy industry level, criteria A					
OTHERS	MTBF	176K hrs min.		MIL-HDBK-217F (25°C)			
	DIMENSION	199x105x41mm (LxWxH)					
	PACKING	0.95Kg;15pcs/15.3Kg/0.69CUFT					

All parameters NOT specially mentioned are measured at 24, 48, 96VDC input, rated load and 25°C of ambient temperature.

- 1 Ripple and noise are measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1uF and 47uF parallel capacitor.
- 2 Tolerance: includes set up tolerance, line regulation and load regulation.
- 3 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”
- 4 Derating may be needed under low input voltages. Please check the derating curve for more details.

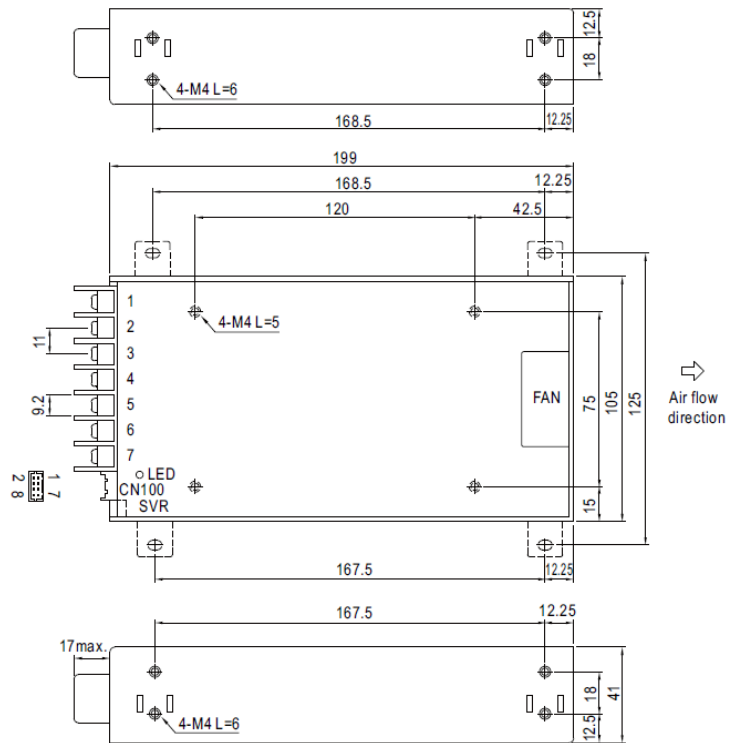
Mechanical specification

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4,5	DC OUTPUT -V
2	AC/N	6,7	DC OUTPUT +V
3	FG \perp		

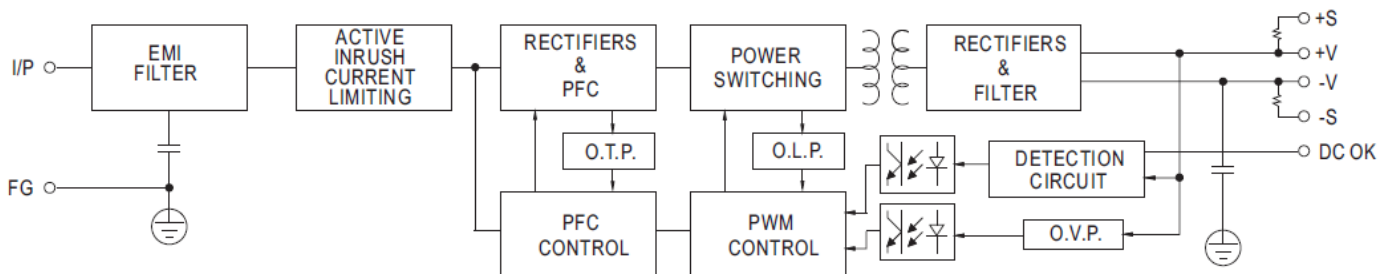
Connector Pin No. Assignment (CN100) : HRS DF11-08DP-2DS or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,4,6	NC	HRS DF11-8DS or equivalent	HRS DF11- ** SC or equivalent
3	DC-OK		
5	GND		
7	+S		
8	-S		

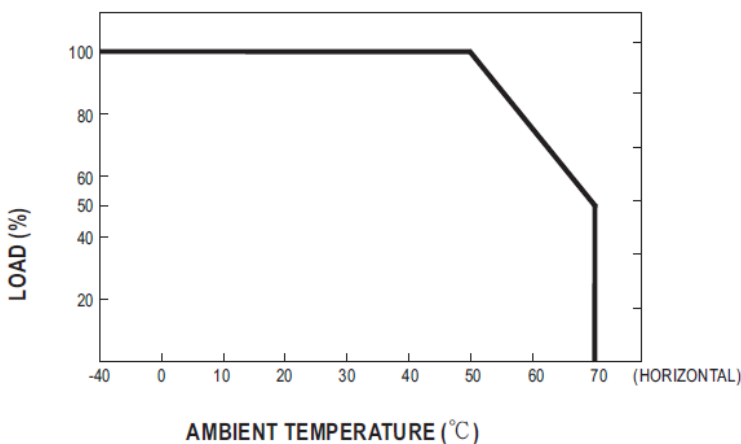


All measurements are in mm.

Block Diagram



Derating curve



Static characteristics

