

Product Feature

1. Single output: power 500W
2. Input voltage: 90~264VAC, 135~370VDC
3. $PF \geq 0.99/115VAC, PF \geq 0.95/230VAC$
4. Operating ambient temperature range: $-20^{\circ}C$ to $+60^{\circ}C$
5. High efficiency up to 94%
6. I/O isolation test voltage 1.5k VAC

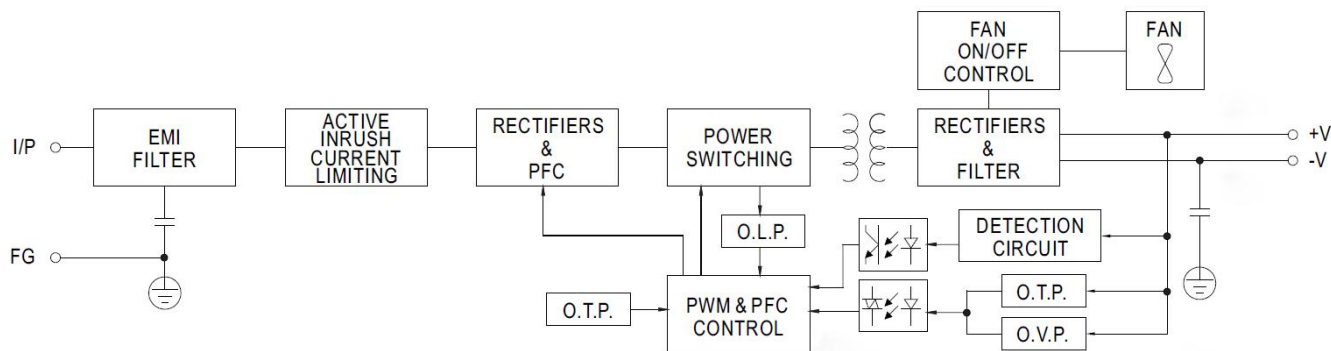


3 years
Warranty

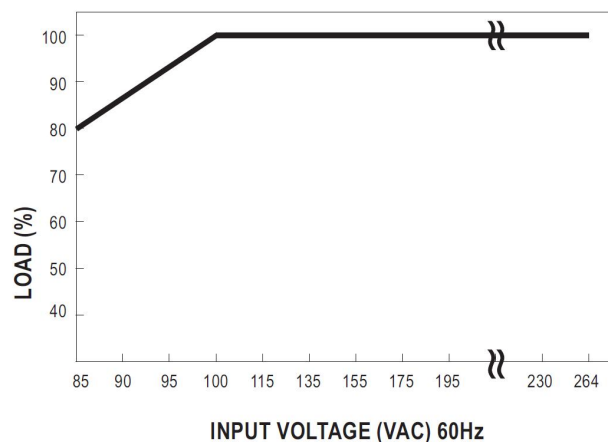
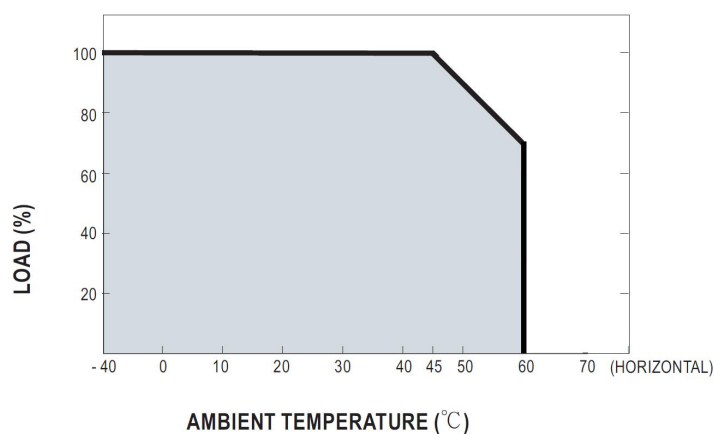
Electrical Specifications

Model number	MBP-500-12-F	MBP-500-24-F	MBP-500-36-F	MBP-500-48-F
DC output voltage	12V	24V	36V	48V
Current	35A	21A	14A	10.5A
Current range	0~35A	0~21A	0~14A	0~10.5A
Rated power	240W	504W	504W	504W
Wave and noise	200mVp-p	200mVp-p	280mVp-p	300mVp-p
Line regulation rate	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Load regulation rate	$\pm 1\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
Efficiency	91%	92.5%	93.5%	94%
Adjustable range for DC voltage	$\pm 10\%$	$\pm 10\%$	$\pm 10\%$	$\pm 10\%$
Input voltage range	90~264VAC, 135~370VDC (Can withstand 300VAC surge input for 5 seconds without damage) 47-63Hz			
AC input current	5.0A/115V 3.0A/230VAC			
Power factor	$PF \geq 0.99/115VAC, PF \geq 0.95/230VAC$ (When fully loaded)			
Impact current	Cold start current 40A/230VAC			
Overload protection	Protection method: Current limiting mode, automatically restores normal output after abnormal conditions are removed			
Overvoltage protection	Starting overvoltage protection at 100%~125% of rated output voltage Protection method: Voltage limiting mode, which can automatically restore normal output after removing abnormal conditions			
Over temperature protection	$85^{\circ}C \pm 10^{\circ}C$ Protection method: Hiccup mode, can automatically recover after the temperature returns to normal			
Setup, rise, hold up time	800ms, 50ms, 16ms/230VAC (When fully loaded)			
Withstand voltage	Input/output space (I/P~O/P): 1.5KVAC Input to ground (I/P~FG): 1.5KVAC Output to ground (O/P~FG): 0.5KVAC			
Insulation resistance	Input/output (I/P~O/P), input to ground (I/P~FG), output to ground (O/P~FG): 100M Ohms/500VDC/25°C/70% RH			
Working temperature/humidity	$-40^{\circ}C \sim +60^{\circ}C$ 20%~90%RH, No condensation			
Dimension	215×115×30mm (L*W*H)			
Packing	0.85kg/20pcs/18.5kg/0.003m ³			

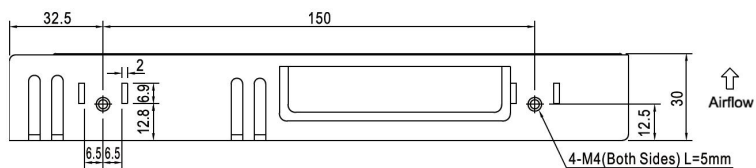
Block Diagram



Derating Curve



Mechanical Specification



Pin	Function
1	AC/L
2	AC/N
3	FG
4~6	DC output -V
7~9	DC output +V

