

1.1 Input Characteristics AC input voltage rating AC input voltage range AC input frequency range Input current Input Power Power factor Efficiency	220Vac 200Vac - 240Vac 47Hz ~ 63Hz 1.41A Max. 150W Max. 0.5 Min 85% Min	
1.2 Output Characteristics Output Voltage Rated load current MAX load current Rated Output Power Min. load current Output Tolerance Ripple and Noise		12.0V 10.0A 12.0A 120W 100mA ±5% 1000mVp-p
1.3 Performance Specifications Line Regulation Load Regulation		±5% ±5%
1.4 Protection Features Over Current Protection Short Circuit Protection Over Voltage or Load Protection Over Temperature Protection		Output shut down with auto-recovery Output shut down with auto-recovery Output shut down with auto-recovery Auto-restart, 130°C (110 ~150°C)
1.5 Environments Operating Temperature Storage Temperature Operating Humidity Storage Humidity		-20℃ to +50℃ -30℃ to +70℃ 20% to 90% R.H. 0% to 95% R.H.
1.6 Dielectric Withstand Voltage condition : non operating Test Point : primary to seconda		3.0KVac, 10mA, 3Sec
1.7 Insulation Resistance condition : non operating Test Point : primary to seconda	ary	Greater than $100^{M\Omega}$ at 500 VDC

2 Performance Evaluation

This session presents the test results of SMPS module up to data. Results on inrush current and safety test are not included and will be added when they become available. Overall, the module meets design specifications.

2.1 Input Characteristics

2.1. 1 Input current and Standby power The module was tested at different input voltages (from 200Vac to 240Vac)

Standby power at min. load			
Input Voltage	200V/60Hz	220V/60Hz	240V/60Hz
Pin (mW)	4.00W	3.90W	4.50W
Input current at full load			
Input Voltage	200V/60Hz	220V/60Hz	240V/60Hz
Input Current (A)	1.50A	1,41	1.31A
Efficiency			
Input Voltage	200V/60Hz	220V/60Hz	240V/60Hz
Input Power (W)	157.7W	157.3W	157.0W
Output Power (W)	142W	142W	142W
Power factor	0.54	0.52	0.51
Efficiency (%)	90%	90%	90%
2.2 Output Characteristics			
2.2.1 Line Regulation & Load Reg	gulation		
	Output Voltage (V)		
Input Voltage	Min Load	Nor. Load	Max Load
200V/60Hz	11.86V	_	11.82V
220V/60Hz	12.02V	_	11.82V
240V/60Hz	12.50V	-	11.82V
2.2.2 Ripple & Noise			
Ripple & Noise measure results			
	Ripple & I	Noise (mV)	Remark
Input Voltage	Minload		

Input Voltage			nonian
mput voltage	Min Load	Max Load	
200V/60Hz	_	430mV	
240V/60Hz	_	400mV	

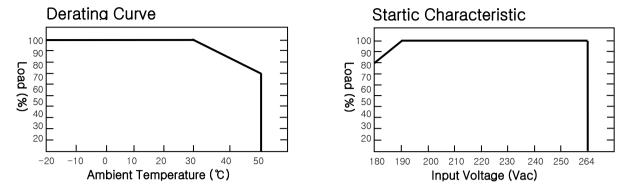
Note: Ripple & noise were measured at DC Cable end with a 0.1uF/50V ceramic cap connected in parallel with a 47uF/50V Electrolytic cap. Bandwidth was limited to 20MHz.

2.3 Protections

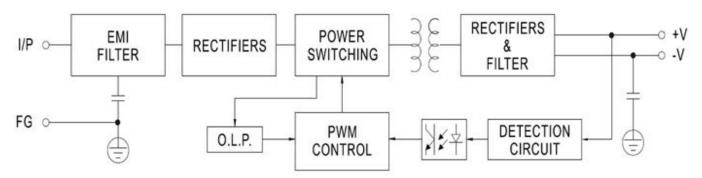
2.3.1 Over Current Protection (OCP)

The power supply will shut down auto-recovery when output current exceeds up load 100%, and it should recover when the over current condition is removed.

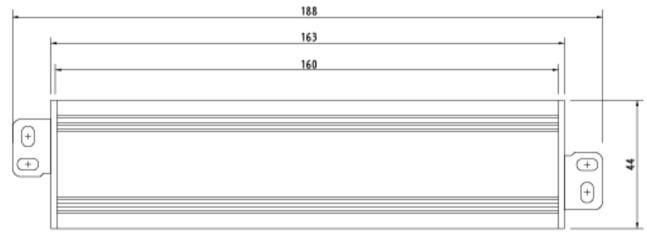
3 load Characteristic Curve



4 Block Diagram



5 Case size



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