

SMPS Specification

LT150-24	V
----------	---

500 VDC

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 1.13A Max. 150W Max. 0.5 Min 85% Min	
1.2 Output Characteristics Output Voltage Rated load current Peak load current Rated Output Power Min. load current Output Tolerance Ripple and Noise		24.0V 5.0A 6.2A 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 Protectio Over Temperature Protection	'n	Output shut down Output shut down Output shut down Output shut down
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, 10 ^{mA} , 3Sec
1.7 Insulation Resistance condition : non operating Test Point : primary to seconda	ary	Greater than $100^{M\Omega}$ at

1.8 Reset After Shut Down

If the power supply latches into fold back or shut down state due to a fault condition on its outputs (over current or short circuit), the power supply sharp return to normal operation only after fault has been removed.

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)	2.80W	2.52W	2.53W
Input current at full load			
Input Voltage	200V/60Hz	220V/60Hz	240V/60Hz
Input Current (A)	1.23A	1.13A	1.08A
Efficiency			
Input Voltage	200V/60Hz	220V/60Hz	240V/60Hz
Input Power (W)	158.2W	156.7W	156.1W
Output Power (W)	149W	149W	149W
Power factor	0.63	0.63	0.59
Efficiency (%)	94%	95%	95%

2.2 Output Characteristics

2.2.1 Line Regulation & Load Regulation

5 5			
Input Voltage		Output Voltage (V)	
	Min Load	Nor. Load	Max Load
200V/60Hz	24.10V	_	24.00V
220V/60Hz	24.10V	_	24.00V
240V/60Hz	24.10V	-	24.00V

2.2.2 Ripple & Noise

Ripple & Noise measure results

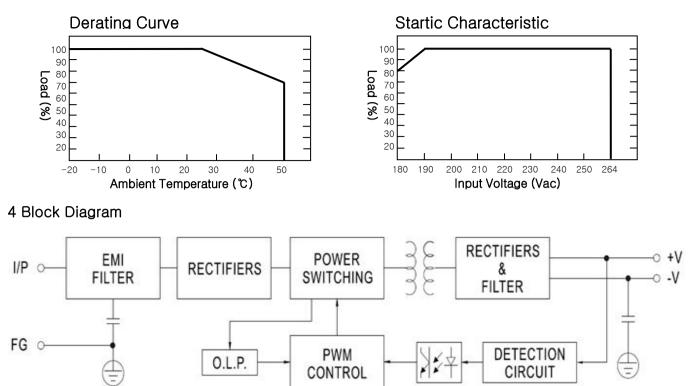
Input Voltage	Ripple & N	loise (mV)	Remark
input voltage	Min Load	Max Load	
200V/60Hz	_	340mV	
240V/60Hz	_	370mV	

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.

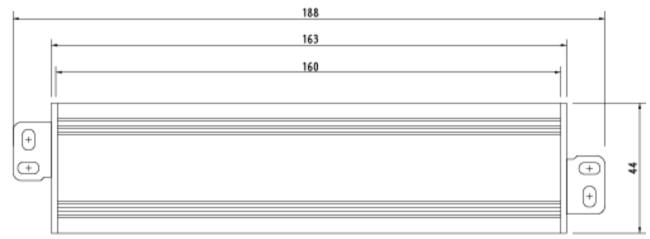
2.3 Protections

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.



5 Case size



	30