

Datasheet

RS 153.6W, 1 Output, Embedded Switch Mode Power Supply (SMPS), 48V dc, 3.2A

RS Stock number 791-1086



■ Features :

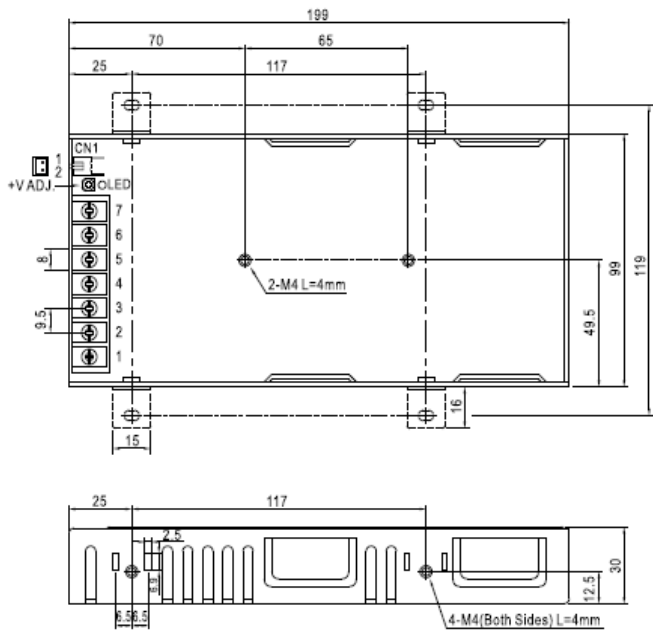
- Universal AC input / Full range
- Built-in active PFC function
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- 1U low profile 30mm
- Remote ON-OFF control
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty



MODEL	7911061	7911070	7911073	7911077	7911086								
OUTPUT	DC VOLTAGE	5V	12V	24V	27V	48V							
	RATED CURRENT	30A	12.5A	6.3A	5.6A	3.2A							
	CURRENT RANGE	0 - 30A	0 - 12.5A	0 - 6.3A	0 - 5.6A	0 - 3.2A							
	RATED POWER	150W	150W	151.2W	151.2W	153.6W							
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	150mVp-p	150mVp-p	250mVp-p							
	VOLTAGE ADJ. RANGE	4.75 - 5.5V	11.4 - 13.2V	22.8 - 26.4V	25.7 - 29.7V	45.6 - 52.8V							
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%							
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%							
	LOAD REGULATION	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%							
	SETUP, RISE TIME	600ms, 30ms at full load											
HOLD UP TIME (Typ.)	16ms at full load												
INPUT	VOLTAGE RANGE Note.5	85 - 264VAC		120 - 370VDC									
	FREQUENCY RANGE	47 - 63Hz											
	POWER FACTOR (Typ.)	PF>0.93/230VAC			PF>0.98/115VAC at full load								
	EFFICIENCY (Typ.)	87%	90%	89%	89.5%	90%							
	AC CURRENT (Typ.)	1.6A/115VAC		0.8A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 45A/230VAC											
	LEAKAGE CURRENT	<2mA / 240VAC											
PROTECTION	OVERLOAD	105 - 135% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed											
	OVER VOLTAGE	5.5 - 6.75V		13.2 - 16.2V		8.25 - 10.13V		26.4 - 32.4V		29.7 - 36.45V		52.8 - 64.8V	
		Protection type : Shut down o/p voltage, re-power on to recover											
	OVER TEMPERATURE	100°C±5°C(TSW1) detect on main power transformer for 3.3V ~ 7.5V ; 105°C±5°C(TSW1) detect on main power transformer for others Protection type : Shut down o/p voltage, recovers automatically after temperature goes down											
FUNCTION	REMOTE CONTROL	CN1: < 0-0.8VDC POWER ON , 4-1.0VDC POWER OFF											
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")											
	WORKING HUMIDITY	20 ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH											
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)											
	VIBRATION	10 - 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes											
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, UL62368-1, TUV EN60950-1, EN61558-1, EN61558-2-16, CCC GB4943 approved											
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			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, GB9254 class B											
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A											
OTHERS	MTBF	290.7K hrs min. MIL-HDBK-217F (25°C)											
	DIMENSION	199*99*30mm (L*W*H)											
	PACKING	0.6Kg; 24pcs/15.4Kg/0.92CUFT											
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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." (as available on http://www.meanwell.com)</p> <p>5. Derating may be needed under low input voltages. Please check the derating curve for more details.</p>												

Mechanical Specification

Case No. 215A Unit:mm



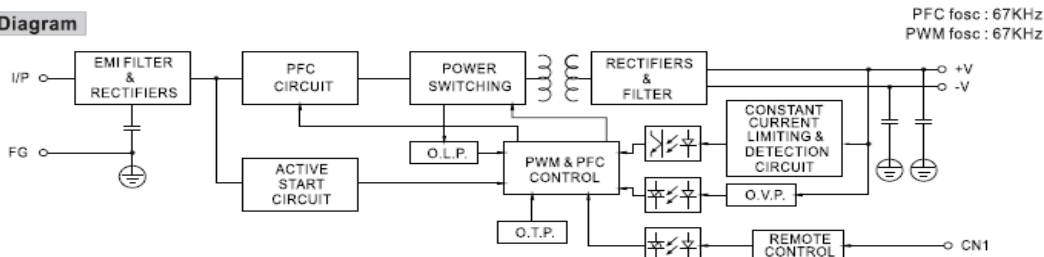
Terminal Pin No. Assignment

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		

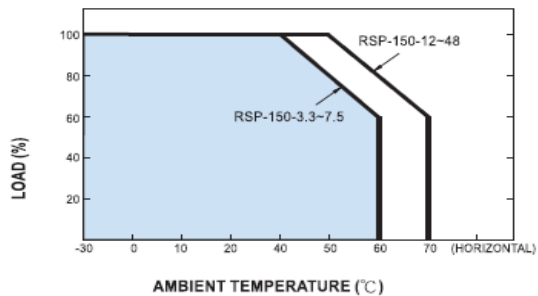
Remote ON/OFF(CN1):JST B-XH or equivalent(optional)

Pin No.	Assignment	Mating Housing	Terminal
1	RC+	JST XHP or equivalent	JST SXH-001T or equivalent
2	RC-		

Block Diagram



Derating Curve



Output Derating VS Input Voltage

