



75W Single Output with PFC Function

HRP-75 series



■ Features :

- Universal AC input / Full range
- Built-in active PFC function
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Overload / Over voltage
- Protections: Over temperature (optional)
- Cooling by free air convection
- 1U low profile 38mm
- Built-in remote ON-OFF control
- No load power consumption<0.5W
- All using 105°C long life electrolytic capacitors
- 5 years warranty

User's Manual



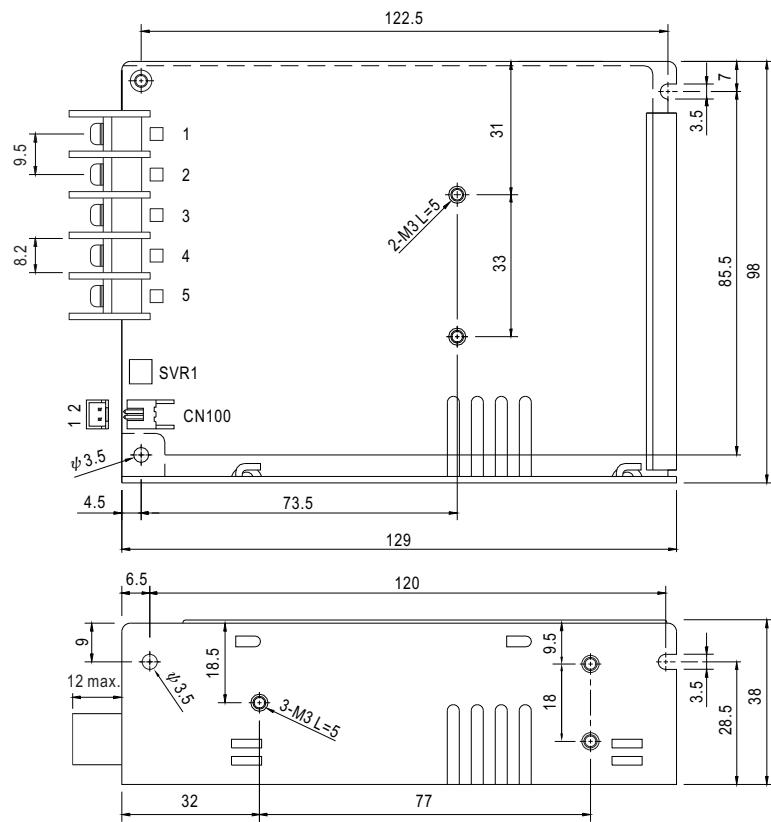
UL62368-1 BS EN/EN62368-1 TPTC004 IEC62368-1

SPECIFICATION

MODEL	HRP-75-3.3	HRP-75-5	HRP-75-7.5	HRP-75-12	HRP-75-15	HRP-75-24	HRP-75-36	HRP-75-48
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V
	RATED CURRENT	15A	15A	10A	6.3A	5A	3.2A	2.1A
	CURRENT RANGE	0 ~ 15A	0 ~ 15A	0 ~ 10A	0 ~ 6.3A	0 ~ 5A	0 ~ 3.2A	0 ~ 2.1A
	RATED POWER	49.5W	75W	75W	75.6W	75W	76.8W	76.8W
	RIPLINE & NOISE (max.) Note.2	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	3.1 ~ 3.8V	4.7 ~ 5.8V	7.1 ~ 9V	11 ~ 13.8V	14.2 ~ 18V	21.6 ~ 28.8V	32 ~ 39.6V
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.5%	±2.5%	±1.5%	±1.5%	±1.5%	±1.5%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±0.3%	±0.3%	±0.2%	±0.2%
	LOAD REGULATION	±2.0%	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1800ms, 25ms/230VAC		1800ms, 25ms/115VAC at full load				
INPUT	HOLD UP TIME (Typ.)	50ms/230VAC		20ms/115VAC at full load				
	VOLTAGE RANGE Note.5	85 ~ 264VAC		120 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF>0.9/230VAC		PF>0.95/115VAC at full load				
	EFFICIENCY (Typ.)	77%	82.5%	84%	87%	88%	88.5%	89%
	AC CURRENT (Typ.)	0.9A/115VAC		0.5A/230VAC				
	INRUSH CURRENT (Typ.)	35A/115VAC		65A/230VAC				
PROTECTION	LEAKAGE CURRENT	<1mA / 240VAC						
	OVERLOAD	105 ~ 135% rated output power						
		Protection type : Constant current limiting, switch to hiccup mode for Vo<50% of rated voltage, recovers automatically after fault condition is removed						
	OVER VOLTAGE	3.96 ~ 4.62V	6 ~ 7V	9.4 ~ 10.9V	14.4 ~ 16.8V	18.8 ~ 21.8V	30 ~ 34.8V	41.4 ~ 48.6V
FUNCTION		Protection type : Shut down o/p voltage, re-power on to recover						
	OVER TEMPERATURE (OPTIONAL)	Shut down o/p voltage, recovers automatically after temperature goes down						
	REMOTE CONTROL	RC+ / RC-: 0 ~ 0.8V = power on ; 4 ~ 10V = power off						
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes						
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, AS/NZS62368.1, EAC TP TC 004 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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020						
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11,BS EN/EN55024,BS EN/EN61000-6-2,heavy industry level, criteria A,EAC TP TC 020						
OTHERS	MTBF	394.8K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	129*98*38mm (L*W*H)						
	PACKING	0.47Kg; 30pcs/ 15Kg/ 0.97CUFT						
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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) 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 6. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							

■ Mechanical Specification

Case No.903D Unit:mm



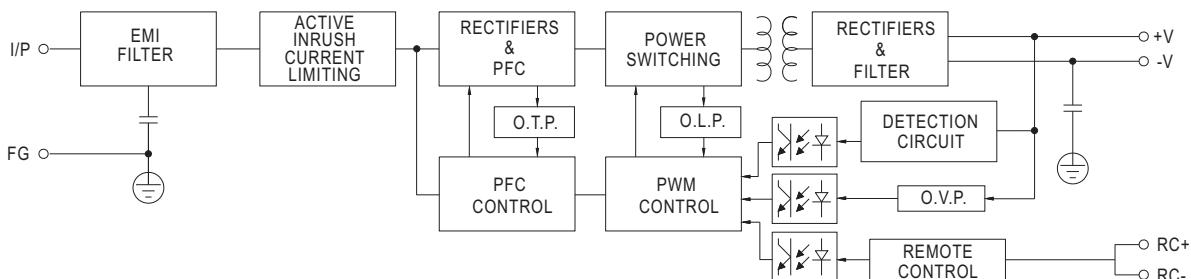
Terminal Pin No. Assignment

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

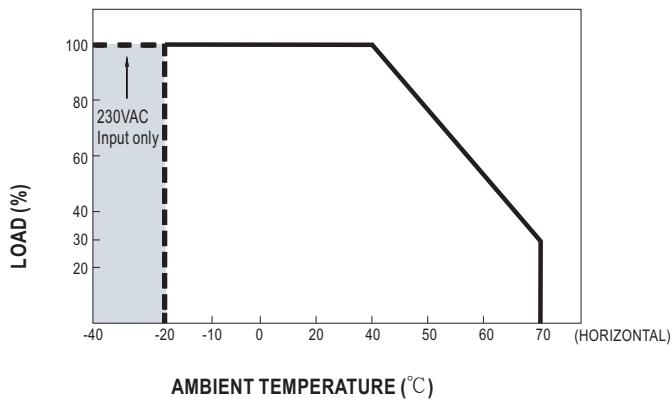
Remote ON/OFF (CN100) : JST B-XH or equivalent

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

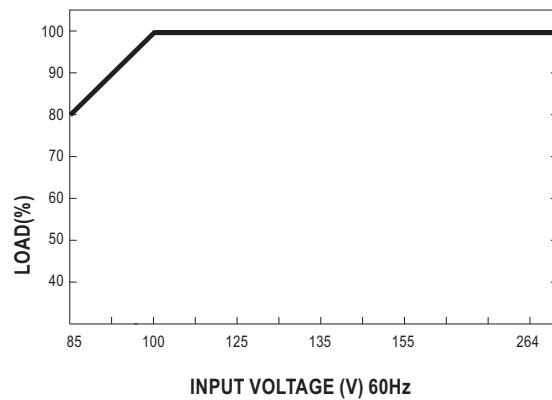
■ Block Diagram



■ Derating Curve



■ Output Derating VS Input Voltage



AMBIENT TEMPERATURE (°C)
※-40°C start up possible for 230VAC input