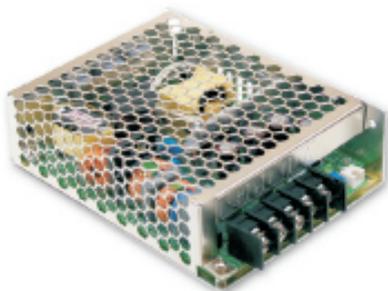


75W Single Output with PFC Function

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



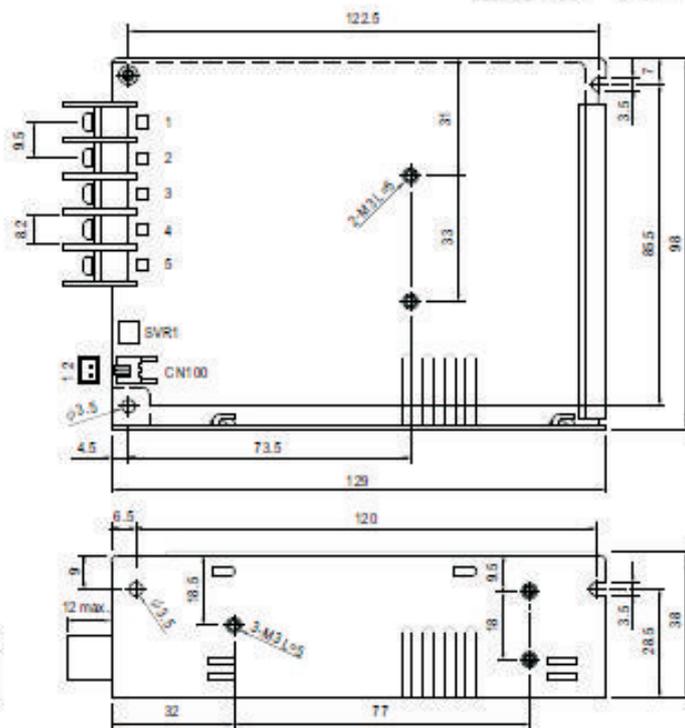
SPECIFICATION

MODEL	705-9731	705-9740	705-9743	705-9747	705-9756	705-9759	705-9753	705-9762		
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V	
	RATED CURRENT	15A	15A	10A	6.3A	5A	3.2A	2.1A	1.6A	
	CURRENT RANGE	0 ~ 15A	0 ~ 15A	0 ~ 10A	0 ~ 6.3A	0 ~ 5A	0 ~ 3.2A	0 ~ 2.1A	0 ~ 1.6A	
	RATED POWER	49.5W	75W	75W	75.6W	75W	76.8W	75.6W	76.8W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-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	45 ~ 55.2V	
	VOLTAGE TOLERANCE Note.3	±2.5%	±2.5%	±2.5%	±1.5%	±1.5%	±1.5%	±1.5%	±1.5%	
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%	
	LOAD REGULATION	±2.0%	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1800ms, 25ms/230VAC		1800ms, 25ms/115VAC at full load						
HOLD UP TIME (Typ.)	50ms/230VAC		20ms/115VAC at full load							
INPUT	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%	89%	
	AC CURRENT (Typ.)	1.2A/115VAC		0.7A/230VAC						
	INRUSH CURRENT (Typ.)	35A/115VAC		65A/230VAC						
	LEAKAGE CURRENT	<1mA/240VAC								
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : Constant current limiting, switch to hiccup mode for Vb<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	57.6 ~ 67.2V	
	OVER TEMPERATURE (OPTIONAL)	85°C ±5°C for 3.3V~15V; 80°C ±5°C for 24V~48V (TSW1 : detect on heatsink of power transistor) (optional) Protection type : Shut down o/p voltage, recovers automatically after temperature goes down								
FUNCTION	REMOTE CONTROL	RC+ / RC-: 0 ~ 0.8V = power on; 4 ~ 10V = power off								
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)								
SAFETY & EMC (Note 4)	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-F.G, O/P-FG:100M Ohms /500VDC /25°C /70% RH								
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B								
OTHERS	HARMONIC CURRENT	Compliance to EN61000-3-2,-3								
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61000-6-2, heavy industry level, criteria A								
	MTBF	394.8K hrs min. MIL-HDBK-217F (25°C)								
NOTE	DIMENSION	129*98*38mm (L*W*H)								
	PACKING	0.47Kg/30pcs/ 15Kg/0.97CUFT								

File Name:HRP-75-SPEC 2009-10-09

Mechanical Specification

Case No.903D Unit:mm



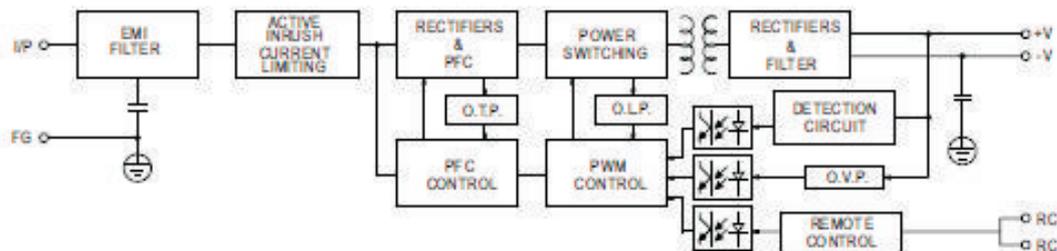
Terminal Pin No. Assignment

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

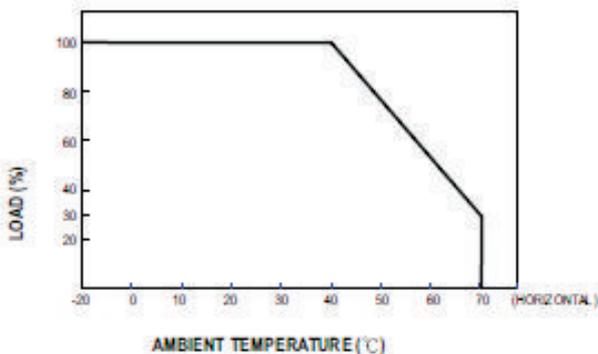
Remote ON/OFF (CN100) : JST B-XH or equivalent

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

Block Diagram



Derating Curve



Output Derating VS Input Voltage

