Power Supply HRP600A48

- Universal AC input / Full range
- Built-in active PFC function, PF > 0.94
- High efficiency - up to 89%
- Withstand 300 VAC surge input for 5 seconds
- Protections: short circuit / overload / over-voltage / over - temperature
- Built-in constant current limiting circuit
- Built-in cooling fan ON/OFF control
- Built-in DC OK signal
- Built-in remote sense function
- All using 105°C long life electrolytic capacitors

HRP600A48 Specification

OUTPUT	DC VOLTAGE	48V
	RATED CURRENT	13A
	RATED POWER	624W
	RIPPLE & NOISE (max.) Note.2	240mVp-p
	VOLTAGE ADJ. RANGE	40.8 ~ 55.2V
	VOLTAGE TOLERANCE Note.3	± 1.0%
	LINE REGULATION	± 0.2%
	LOAD REGULATION	± 0.5%
	SETUP, RISE TIME	1800ms, 50ms / 230VAC 3600ms, 50ms / 115VAC at full load
	HOLD UP TIME (Typ.)	16ms / 230VAC 16ms/115VAC at full load
INPUT	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC
	FREQUENCY RANGE	47 ~ 63Hz
	POWER FACTOR (Typ.)	PF>0.94/230VAC PF>0.99/115VAC at full load
	EFFICIENCY (Typ.)	89%
	AC CURRENT (Typ.)	7.6A / 115VAC 3.6A/230VAC
	INRUSH CURRENT (Typ.)	35A / 115VAC 70A/230VAC
	LEAKAGE CURRENT	<1.2mA / 240VAC
PROTECTION	OVERLOAD	105 ~ 135% rated output power Protection type : Constant current limiting, recovers automatically after fault condition is removed
	OVER VOLTAGE	57.6 ~ 67.2V Protection type : Shut down o/p voltage, re-power on to recover
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down
FUNCTION	DC OK SIGNAL	PSU turn on : 3.3 ~ 5.6V ; PSU turn off : 0 ~ 1V
	FAN CONTROL (Typ.)	Load 35± 15% or RTH2 ≥ 50°C Fan on
ENVIRONMENT	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")
	WORKING HUMIDITY	20 ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing
	TEMP. COEFFICIENT	± 0.03%/ (0 ~ 50°C)
	VIBRATION	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVA
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2, heavy industry level, criteria A, EAC TP TC 020

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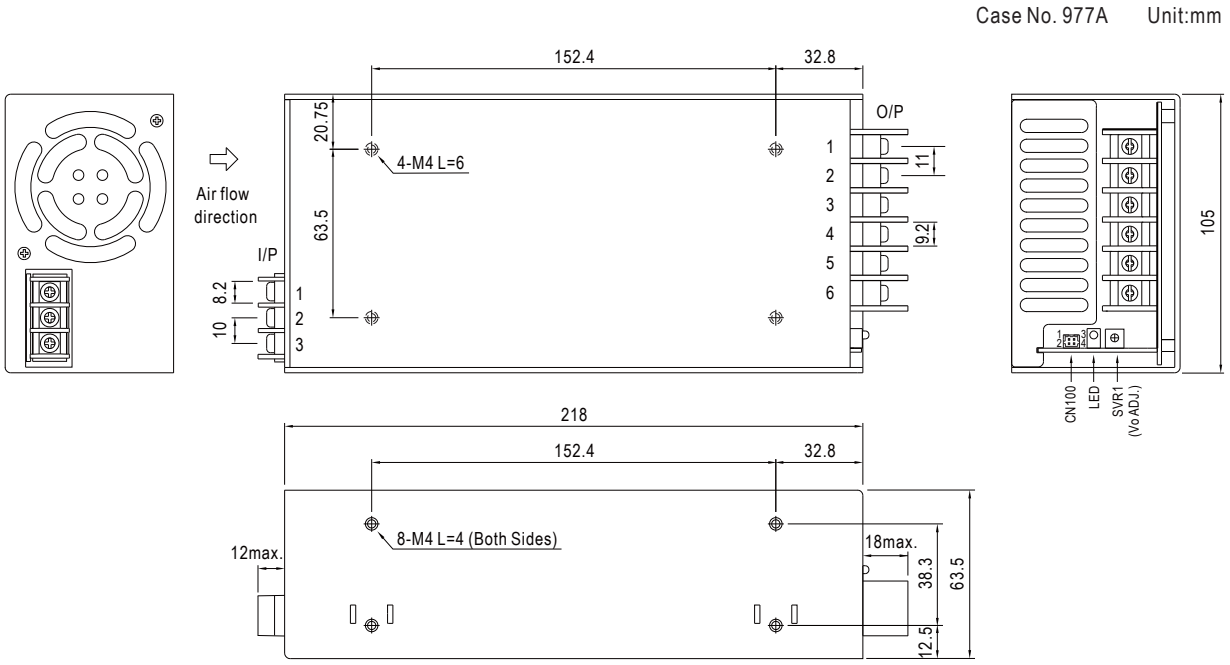
HRP600A48 Specification cont'

OTHERS	MTBF	140.6K hrs min. MIL-HDBK-217F (25°C)
	DIMENSIONS	218*105*63.5mm (L*W*H)
	PACKING	1.5Kg;8pcs/13Kg/1.34CUFT
NOTES	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 "EM/ testing of component power supplies." 5. Derating may be needed under low input voltages. Please check the derating curve for more details. 6. The ambient temeprature derating of 3.5% / 1000m with fanless models and of 5% / 1000m with fan models for operating altitude higher than 2000m (6500ft).	

HRP600A48 Mechanical specification

Case No. 977A Unit:mm



AC Input Terminal Pin No. Assignment

Pin No.	Assignment
1	AC/L
2	AC/N
3	FG ⏚

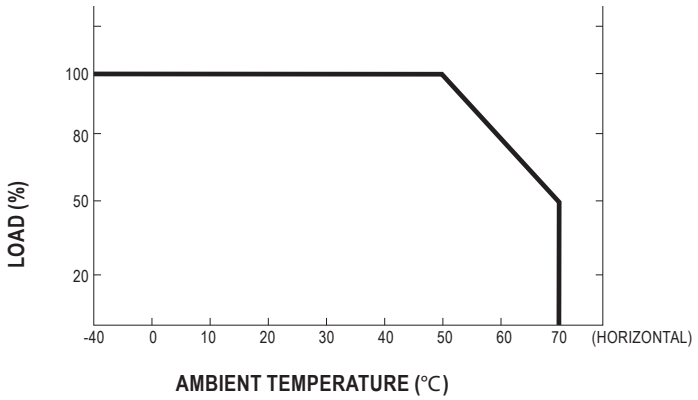
DC Output Terminal Pin No. Assignment

Pin No.	Assignment
1~3	-V
4~6	+V

Connector Pin No. Assignment(CN100) : HRS DF11-4DP-2DS or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	DC-OK	HRS DF11-4DS or equivalent	HRS DF11-**SC or equivalent
2	GND		
3	+S		
4	-S		

HRP600A48 Derating curve



HRP600A48 Output derating vs. input voltage