



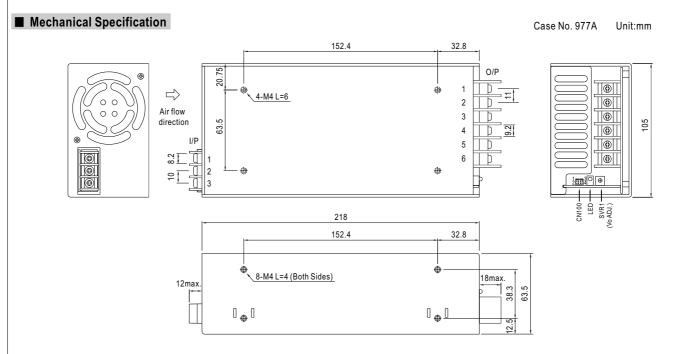
### Features:

- Universal AC input / Full range
- Built-in active PFC function, PF>0.95
- High efficiency up to 89%(typ.)
- Withstand 300VAC 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 (by load)
- With DC OK signal output
- Built-in remote sense function
- All using 105°C long life electrolytic capacitors
- 5 years warranty



MODEL		HRP-600-3.3	HRP-600-5	HRP-600-7.5	HRP-600-12	HRP-600-15	HRP-600-24	HRP-600-36	HRP-600-48
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V
	RATED CURRENT	120A	120A	80A	53A	43A	27A	17.5A	13A
	CURRENT RANGE	0 ~ 120A	0 ~ 120A	0 ~ 80A	0 ~ 53A	0 ~ 43A	0 ~ 27A	0 ~ 17.5A	0 ~ 13A
	RATED POWER	396W	600W	600W	636W	645W	648W	630W	624W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	100mVp-p	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	240mVp-p
OUTPUT	VOLTAGE ADJ. RANGE	2.8 ~ 3.8V	4.3 ~ 5.8V	6.8 ~ 9V	10.2 ~ 13.8V	13.5 ~ 18V	21.6 ~ 28.8V	28.8 ~ 39.6V	40.8 ~ 55.2
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.3%	±0.3%	±0.2%	±0.2%	±0.2%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms, 50ms		2500ms, 50ms/1					
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load 13ms/115VAC at full load for 5V,7.5V							
	, , ,	85 ~ 264VAC 120 ~ 370VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	PF>0.94/230VAC PF>0.99/115VAC at full load							
INPUT	EFFICIENCY (Typ.)	78.5%	82%	87%	88%	88%	88%	89%	89%
	AC CURRENT (Typ.)	8.5A/115VAC	5A/230VAC	0170	0070	0070	0070	00 70	0370
	INRUSH CURRENT (Typ.)	35A/115VAC 70A/230VAC 70A/230VAC							
	LEAKAGE CURRENT	SDA/115VAC 70A/230VAC <1mA/240VAC							
	LLANAGE CONNENT								
	OVERLOAD	105 ~ 135% rated output power  Protection type: Constant current limiting, recovers automatically after fault condition is removed							
		3.96 ~ 4.62V	6 ~ 7V	9.4 ~ 10.9V	14.4 ~ 16.8V	1	I	41.4 ~ 48.6V	57.6 ~ 67.2
PROTECTION	OVER VOLTAGE					18.8 ~ 21.8V	30 ~ 34.8V	41.4 ~ 40.0 V	37.0~07.2
PROTECTION		Protection type: Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE	$80^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW1)detect on heatsink of power transistor $90^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW2) detect on heatsink of power doide for 3.3V,5V,7.5V; $100^{\circ}\text{C} \pm 5^{\circ}\text{C}$ (TSW2) detect on main power output choke for other transitions.							
	OVER TEMPERATURE								
FUNCTION	DO OK OLOMAL	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down  PSULtura on: 3.2 × 5.6 (v. PSULtura off : 0 × 1)/							
FUNCTION	DC OK SIGNAL	PSU turn on: 3.3 ~ 5.6V; PSU turn off: 0 ~ 1V							
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)							
FUURANIENT	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 STANDARDS	UL60950-1, TUV EN60950-1 approved							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH							
(Note 4)	EMI CONDUCTION & RADIATION		EN55022 (CISI	,					
	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							
OTHERS	MTBF	140.6K hrs min. MIL-HDBK-217F (25℃)							
	DIMENSION	218*105*63.5mm (L*W*H)							
	PACKING	1.5Kg;8pcs/13Kg/1.34CUFT							
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consided EMC directives.	Decially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  assured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  et up tolerance, line regulation and load regulation.  onsidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets  ed under low input voltages. Please check the derating curve for more details.							





## AC Input Terminal Pin No. Assignment

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

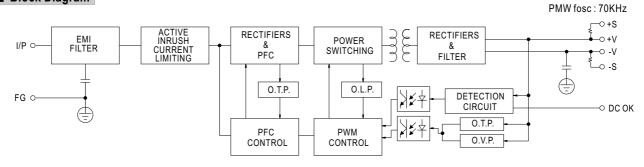
DC Output Terminal Pin No. Assignment

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		
2	GND	HRS DF11-4DS	HRS DF11-**SC
3	+S	or equivalent	or equivalent
4	-S		

## ■ Block Diagram



### ■ Derating Curve

# ■ Output Derating VS Input Voltage

