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P600E



Features

- World wide input voltage
- Small and compact size
- Built-in Inrush Current Protection
- Built-in Over Current Protection
- Built-in Over Voltage Protection
- RoHS Compliant

Safety Agency Approvals

- Complies with DEN-AN
- UL1950
- CSA 22.2 No.234
- EN60950, VDE0160 (without PT1500U)

EMI Compliance

- P15E, 30E, 50E : Complies with FCC-B
- P100E, 150E, 300E, 600E, 1500E, PT1500U : Complies with FCC-A

3 year warranty(refer to Instruction Manual)

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
P600E-5	AC 85 - 264	600	5V 120A
P600E-12	AC 85 - 264	636	12V 53A
P600E-15	AC 85 - 264	645	15V 43A
P600E-18	AC 85 - 264	612	18V 34A
P600E-24	AC 85 - 264	648	24V 27A
P600E-30	AC 85 - 264	600	30V 20A
P600E-48	AC 85 - 264	624	48V 13A



RoHS : Please consult us for details

- ①Series name
- ②Output wattage
- ③UL recognized, TÜV approved, CSA certified:E
- ④Output voltage
- ⑤Optional
C :with Coating
G :Low leakage current
R :Positive logic control

MODEL	P600E-5	P600E-12	P600E-15	P600E-18	P600E-24	P600E-30	P600E-48
MAX OUTPUT WATTAGE[W]	600	636	645	612	648	600	624
DC OUTPUT	5V 120A	12V 53A	15V 43A	18V 34A	24V 27A	30V 20A	48V 13A

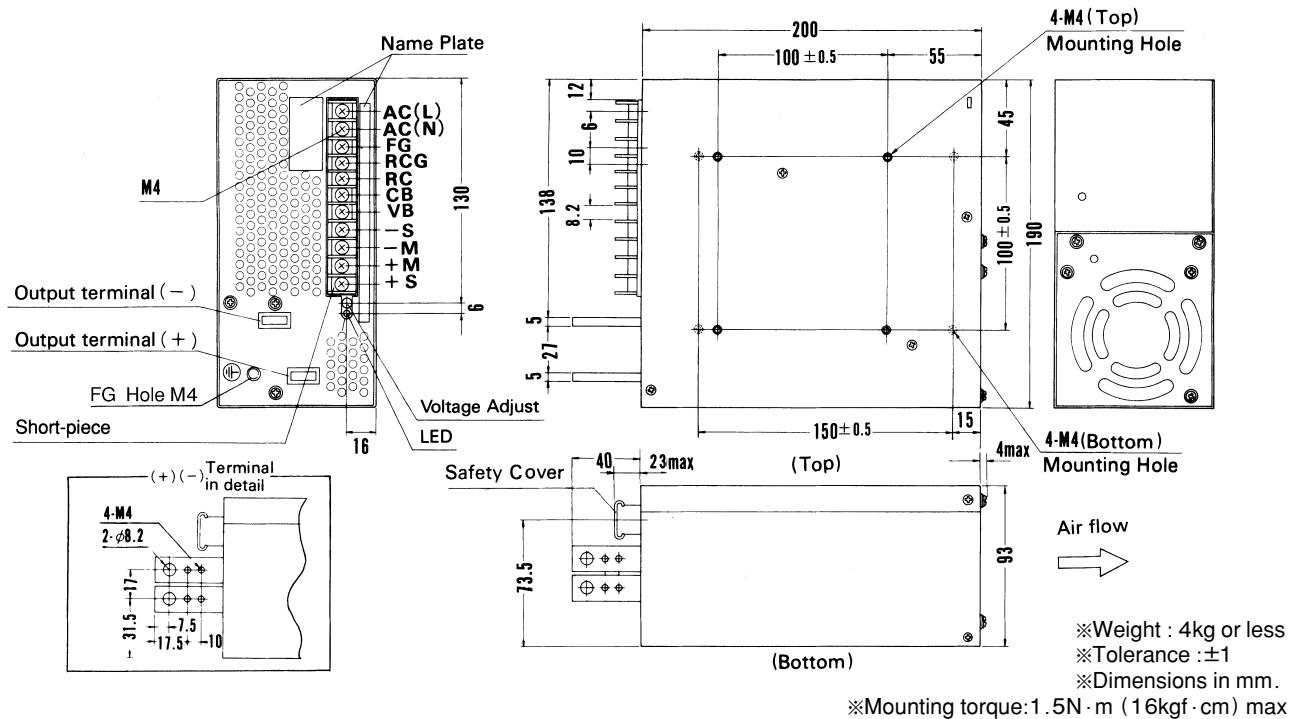
SPECIFICATIONS

	MODEL	P600E-5	P600E-12	P600E-15	P600E-18	P600E-24	P600E-30	P600E-48	
INPUT	VOLTAGE[V]		AC85 - 132 / 170 - 264 1 φ (Auto-selectable)						
	CURRENT[A]	ACIN 100V *1	11typ (Io=100%)						
		ACIN 200V *1	6typ (Io=100%)						
	FREQUENCY[Hz]		47 - 63						
	EFFICIENCY[%]		77typ	80typ	81typ	80typ	84typ	81typ	80typ
	INRUSH CURRENT[A]	ACIN 100V	30/50typ (Io=100%) (Primary inrush current /Secondary inrush current)						
ACIN 200V		60/50typ (Io=100%) (Primary inrush current /Secondary inrush current)							
OUTPUT	VOLTAGE[V]		5	12	15	18	24	30	48
	CURRENT[A]		120	53	43	34	27	20	13
	MAX OUTPUT WATTAGE[W]		600	636	645	612	648	600	624
	LINE REGULATION[mV]		20max	48max	60max	72max	96max	120max	192max
	LOAD REGULATION[mV]		40max	100max	120max	144max	150max	180max	300max
	RIPPLE[mVp-p] *2		80max	120max	120max	120max	120max	150max	150max
	RIPPLE NOISE[mVp-p] *2		120max	150max	150max	150max	150max	200max	400max
	TEMPERATURE REGULATION[mV] 0 to +50℃		50max	120max	150max	180max	240max	300max	480max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		±10%						
	START-UP TIME[ms]		300max (ACIN 85/170V, Io=100%)						
HOLD-UP TIME[ms]		20typ (ACIN 85/170V, Io=100%)							
PROTECTION CIRCUIT	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically						
	OVERVOLTAGE PROTECTION		Works at 115 - 140% of rating						
ISOLATION	INPUT-OUTPUT · RC		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)						
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩmin (At Room Temperature)						
	OUTPUT · RC-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)						
	OUTPUT-RC		AC100V 1minute, Cutoff current = 100mA, DC100V 50MΩmin (At Room Temperature)						
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		0 to +60℃, 30 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max						
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max						
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 30minutes each along X, Y and Z axis						
	IMPACT		196.1m/s ² (20G), 11ms, once each X, Y and Z axis						
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, EN60950-1, EN50178, CSA C22.2 No.234 Complies with DEN-AN and IEC60950-1						
	CONDUCTED NOISE		Complies with FCC-A						

*1 The input current of the agency approved unit is indicated as 11.6A (ACIN 100V) or 6.2A (ACIN 200V).

*2 According to 15MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN : RM101).

External view



Performance data

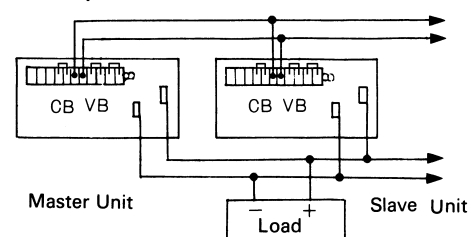
■ Automatic Input Voltage Selector

Requires no manual adjustment (wire or Short-pieces).
P600 unit detects input voltage then select circuit to
match applied input voltage.

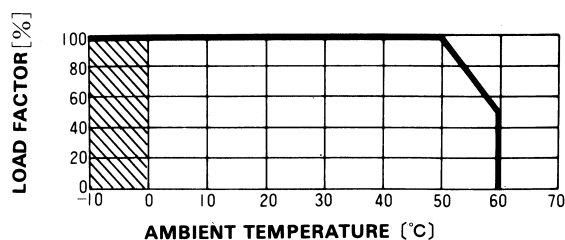
■ Automatic Current sharing

- Output voltage is controlled by a potentiometer in master unit. Turn slave unit's potentiometer clock wise all the way to the end.
- Maximum output current can be determined by using the following formula: Total output current = $0.9 \times (\text{Rated current per unit}) \times \text{Number of units paralleled}$
- Five units maximum for the parallel operation.

- **Example**



■ DERATING CURVE



* The shadow indicates the region where different specifications for ripple noise should be used.