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P300E



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]
P300E-5	AC 85 - 264	300	5V 60A
P300E-12	AC 85 - 264	324	12V 27A
P300E-15	AC 85 - 264	330	15V 22A
P300E-18	AC 85 - 264	306	18V 17A
P300E-24	AC 85 - 264	336	24V 14A
P300E-30	AC 85 - 264	300	30V 10A
P300E-48	AC 85 - 264	312	48V 6.5A

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



RoHS : Please consult us for details

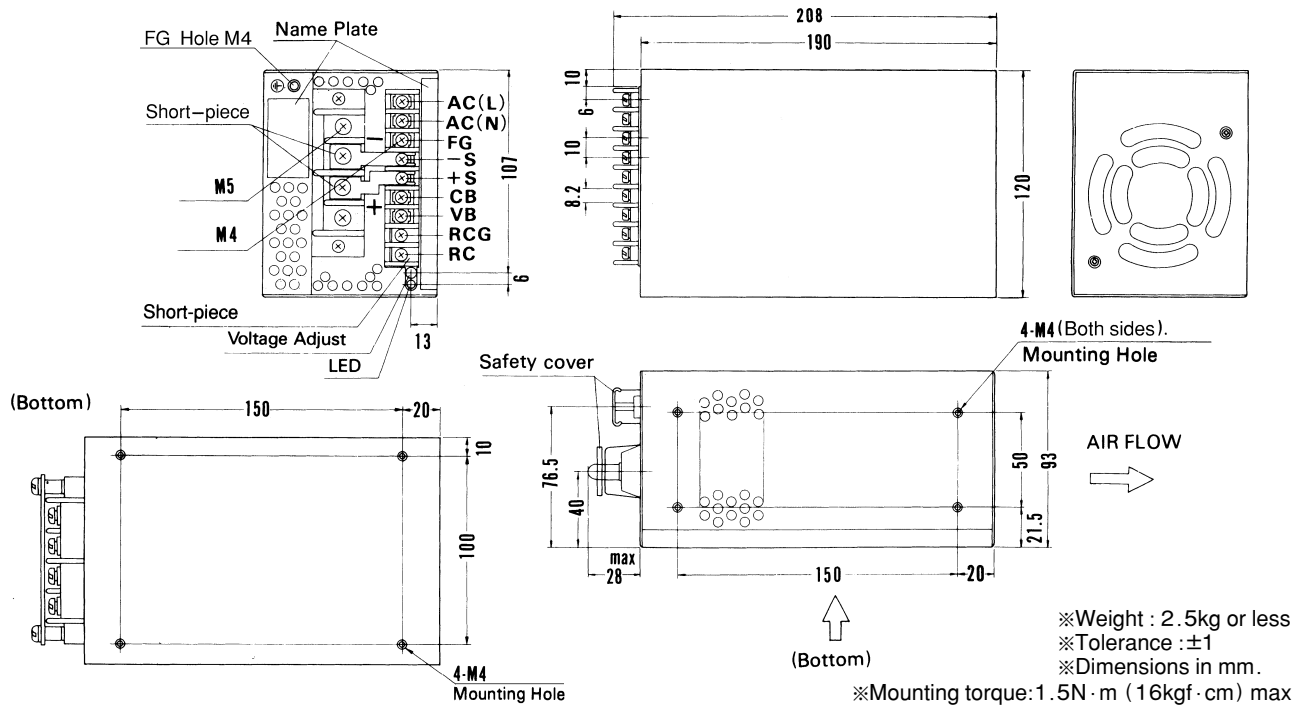
MODEL	P300E-5	P300E-12	P300E-15	P300E-18	P300E-24	P300E-30	P300E-48
MAX OUTPUT WATTAGE[W]	300	324	330	306	336	300	312
DC OUTPUT	5V 60A	12V 27A	15V 22A	18V 17A	24V 14A	30V 10A	48V 6.5A

SPECIFICATIONS

	MODEL	P300E-5	P300E-12	P300E-15	P300E-18	P300E-24	P300E-30	P300E-48	
INPUT	VOLTAGE[V]	AC85 - 132 / 170 - 264 1 φ (Auto-selectable)							
	CURRENT[A]	ACIN 100V *1	5.5typ (Io=100%)						
		ACIN 200V *1	3.5typ (Io=100%)						
	FREQUENCY[Hz]	47 - 63							
	EFFICIENCY[%]		74typ	78typ	81typ	81typ	83typ	78typ	79typ
	INRUSH CURRENT[A]	ACIN 100V	25/40typ (Io=100%) (Primary inrush current /Secondary inrush current)						
ACIN 200V		50/40typ (Io=100%) (Primary inrush current /Secondary inrush current)							
OUTPUT	VOLTAGE[V]	5	12	15	18	24	30	48	
	CURRENT[A]	60	27	22	17	14	10	6.5	
	MAX OUTPUT WATTAGE[W]	300	324	330	306	336	300	312	
	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	120max	150max	
	RIPPLE NOISE[mVp-p] *2	120max	150max	150max	150max	150max	200max	400max	
	TEMPERATURE REGULATION[mV] 0 to +50°C	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%) 40typ (ACIN 100/200V, 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	-10 to +60°C, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max							
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 95%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 6.5A (ACIN 100V) or 3.6A (ACIN 200V).
 *2 According to 15MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).

External view



Performance data

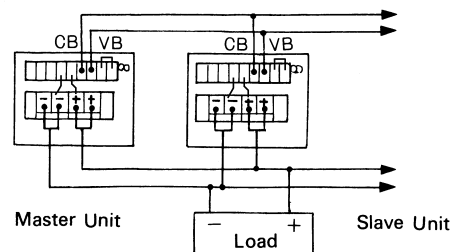
■ Automatic Input Voltage Selector

Requires no manual adjustment (wire or Short-pieces). P300 unit detects input voltage then select circuit to match applied input voltage.

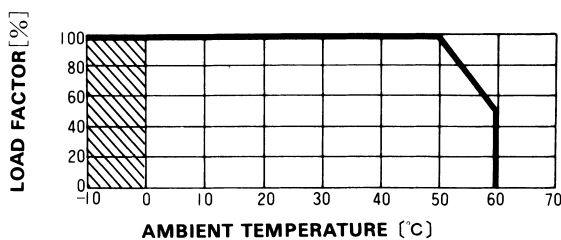
■ Automatic Current sharing

- 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 × (Rated current per unit) × 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.