

P1500E



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]
P1500E-5	DC 220 - 370 AC 85 - 264	1500	5V 300A
P1500E-9	DC 220 - 370 AC 85 - 264	1503	9V 167A
P1500E-12	DC 220 - 370 AC 85 - 264	1500	12V 125A
P1500E-15	DC 220 - 370 AC 85 - 264	1500	15V 100A
P1500E-18	DC 220 - 370 AC 85 - 264	1512	18V 84A
P1500E-24	DC 220 - 370 AC 85 - 264	1560	24V 65A
P1500E-30	DC 220 - 370 AC 85 - 264	1500	30V 50A
P1500E-48	DC 220 - 370 AC 85 - 264	1536	48V 32A

- ① Series name
- ② Output wattage
- ③ UL recognized, TÜV approved, CSA certified: E
- ④ Output voltage
- ⑤ Optional
C : with Coating



RoHS : Please consult us for details

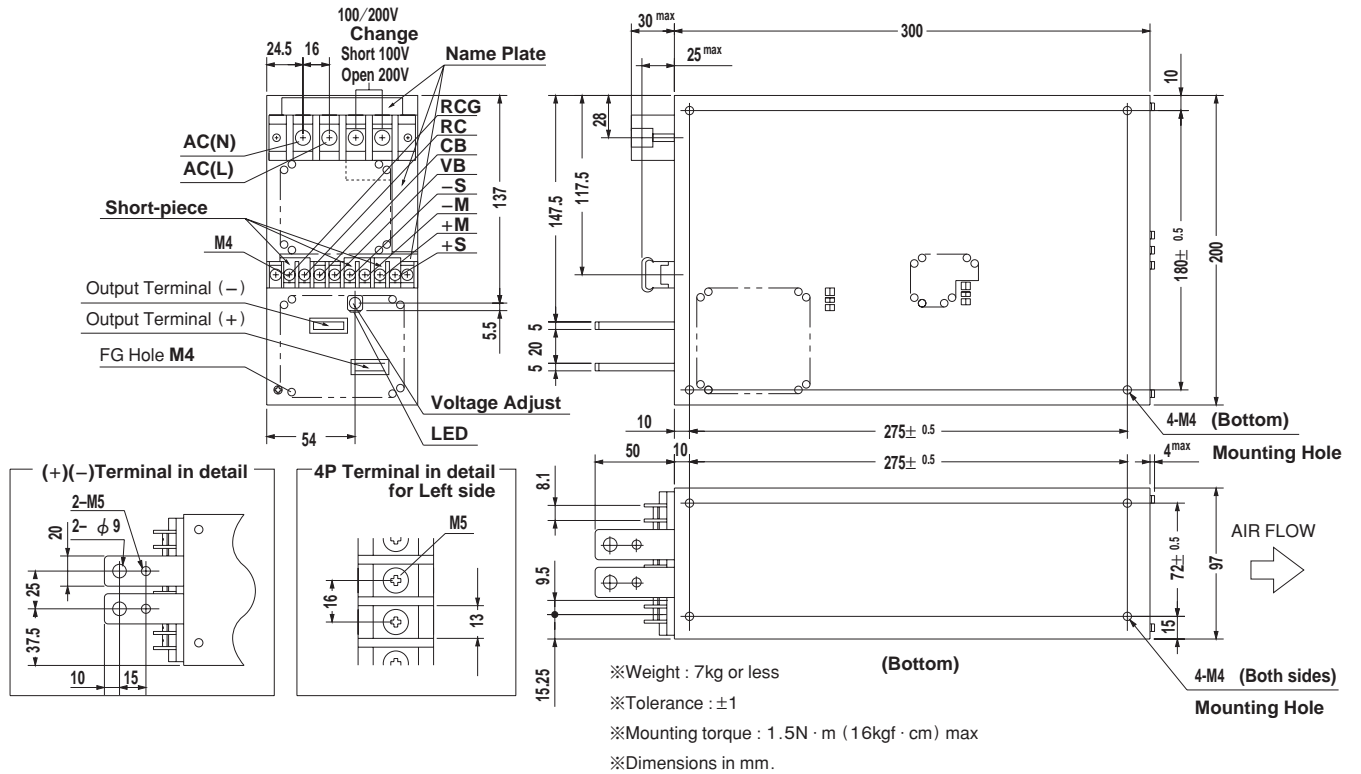
MODEL	P1500E-5	P1500E-12	P1500E-15	P1500E-18	P1500E-24
MAX OUTPUT WATTAGE[W]	1500	1500	1500	1512	1560
DC OUTPUT	5V 300A	12V 125A	15V 100A	18V 84A	24V 65A

SPECIFICATIONS

	MODEL	P1500E-5	P1500E-12	P1500E-15	P1500E-18	P1500E-24	
INPUT	VOLTAGE[V]	AC85 - 132 / 170 - 264 1ϕ (User-selectable) or DC220 - 370					
	CURRENT[A]	ACIN 100V *1	29typ (Io=100%)				
		ACIN 200V *1	18typ (Io=100%)				
	FREQUENCY[Hz]	47 - 440					
	EFFICIENCY[%]		78typ	81typ	81typ	81typ	83typ
	INRUSH CURRENT[A]	ACIN 100V	25/150typ (Io=100%) (Primary inrush current /Secondary inrush current)				
ACIN 200V		50/150typ (Io=100%) (Primary inrush current /Secondary inrush current)					
OUTPUT	VOLTAGE[V]	5	12	15	18	24	
	CURRENT[A]	300	125	100	84	65	
	MAX OUTPUT WATTAGE[W]	1500	1500	1500	1512	1560	
	LINE REGULATION[mV]	20max	48max	60max	72max	96max	
	LOAD REGULATION[mV]	40max	100max	120max	150max	150max	
	RIPPLE[mVp-p] *2	80max	120max	120max	120max	120max	
	RIPPLE NOISE[mVp-p] *2	120max	150max	150max	150max	150max	
	TEMPERATURE REGULATION[mV] 0 to +50°C	50max	120max	150max	180max	240max	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	-20 to +10%					
START-UP TIME[ms]	800max (ACIN 85/170V, Io=100%)						
HOLD-UP TIME[ms]	10typ (ACIN 85/170V, Io=100%) 20typ (ACIN 100/200V, Io=100%)						
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating					
	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, 30 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max					
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 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 27A (ACIN 100V) or 17A (ACIN 200V).
 *2 According to 15MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN : RM101).

External view

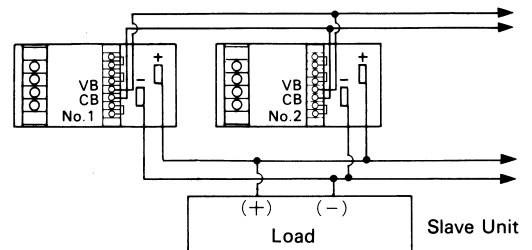


Performance data

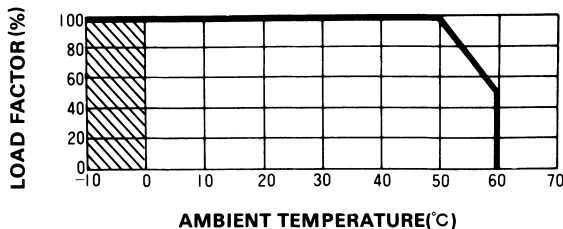
Automatic Current sharing

- 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.