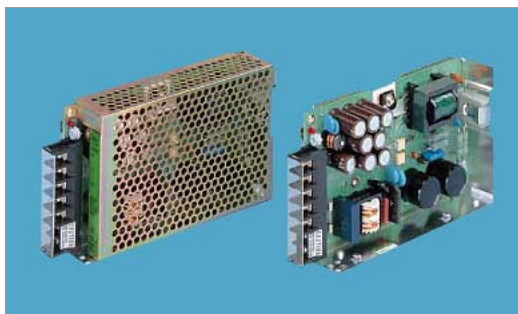


[Home](#) > Product Details

P50E



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

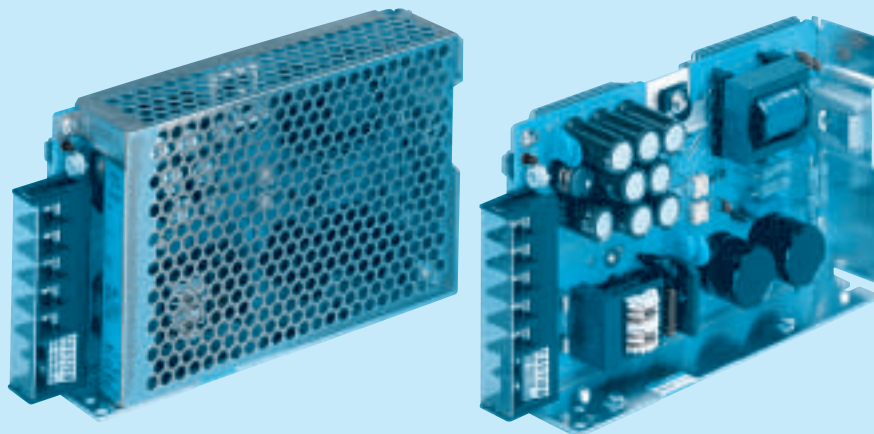
- Complies with DEN-AN
- UL1950
- CSA 22.2 No.234
- EN60950, VDE0160 (without PT1500U)

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]
P50E-5	DC 220 - 370 AC 85 - 264	50	5V 10A
P50E-9	DC 220 - 370 AC 85 - 264	49.5	9V 5.5A
P50E-12	DC 220 - 370 AC 85 - 264	50.4	12V 4.2A
P50E-15	DC 220 - 370 AC 85 - 264	51	15V 3.4A
P50E-18	DC 220 - 370 AC 85 - 264	50.4	18V 2.8A
P50E-24	DC 220 - 370 AC 85 - 264	50.4	24V 2.1A
P50E-30	DC 220 - 370 AC 85 - 264	51	30V 1.7A
P50E-48	DC 220 - 370 AC 85 - 264	48	48V 1A



- 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
 J : Connector type
 N : with Cover

MODEL	P50E-5	P50E-9	P50E-12	P50E-15	P50E-18	P50E-24	P50E-30	P50E-48
MAX OUTPUT WATTAGE[W]	50	49.5	50.4	51	50.4	50.4	51	48
DC OUTPUT	5V 10A	9V 5.5A	12V 4.2A	15V 3.4A	18V 2.8A	24V 2.1A	30V 1.7A	48V 1.0A

SPECIFICATIONS

	MODEL	P50E-5	P50E-9	P50E-12	P50E-15	P50E-18	P50E-24	P50E-30	P50E-48
INPUT	VOLTAGE[V]	AC85 - 132 / 170 - 264 1ϕ (User-selectable) or DC220 - 370							
	CURRENT[A]	ACIN 100V *1	1.2typ (Io=100%)						
		ACIN 200V *1	0.61typ (Io=100%)						
	FREQUENCY[Hz]	47 - 440							
	EFFICIENCY[%]	72typ	77typ	77typ	78typ	78typ	80typ	82typ	80typ
	INRUSH CURRENT[A]	ACIN 100V	20typ (Io=100%) (At cold start)						
ACIN 200V		40typ (Io=100%) (At cold start)							
OUTPUT	VOLTAGE[V]	5	9	12	15	18	24	30	48
	CURRENT[A]	10	5.5	4.2	3.4	2.8	2.1	1.7	1.0
	MAX OUTPUT WATTAGE[W]	50	49.5	50.4	51	50.4	50.4	51	48
	LINE REGULATION[mV]	20max	36max	48max	60max	72max	96max	120max	192max
	LOAD REGULATION[mV]	40max	70max	100max	120max	144max	150max	180max	240max
	RIPPLE[mVp-p] *2	80max	120max	120max	120max	120max	120max	120max	150max
	RIPPLE NOISE[mVp-p] *2	120max	150max	150max	150max	150max	150max	150max	250max
	TEMPERATURE REGULATION[mV] 0 to +50℃	50max	120max	120max	150max	180max	240max	350max	480max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	± 10%							
	START-UP TIME[ms]	100max (ACIN 85V, Io=100%)							
	HOLD-UP TIME[ms]	10typ (ACIN 85V, Io=100%) 20typ (ACIN 100V, 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	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-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩmin (At Room Temperature)							
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE	-10 to +65℃, 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-B							

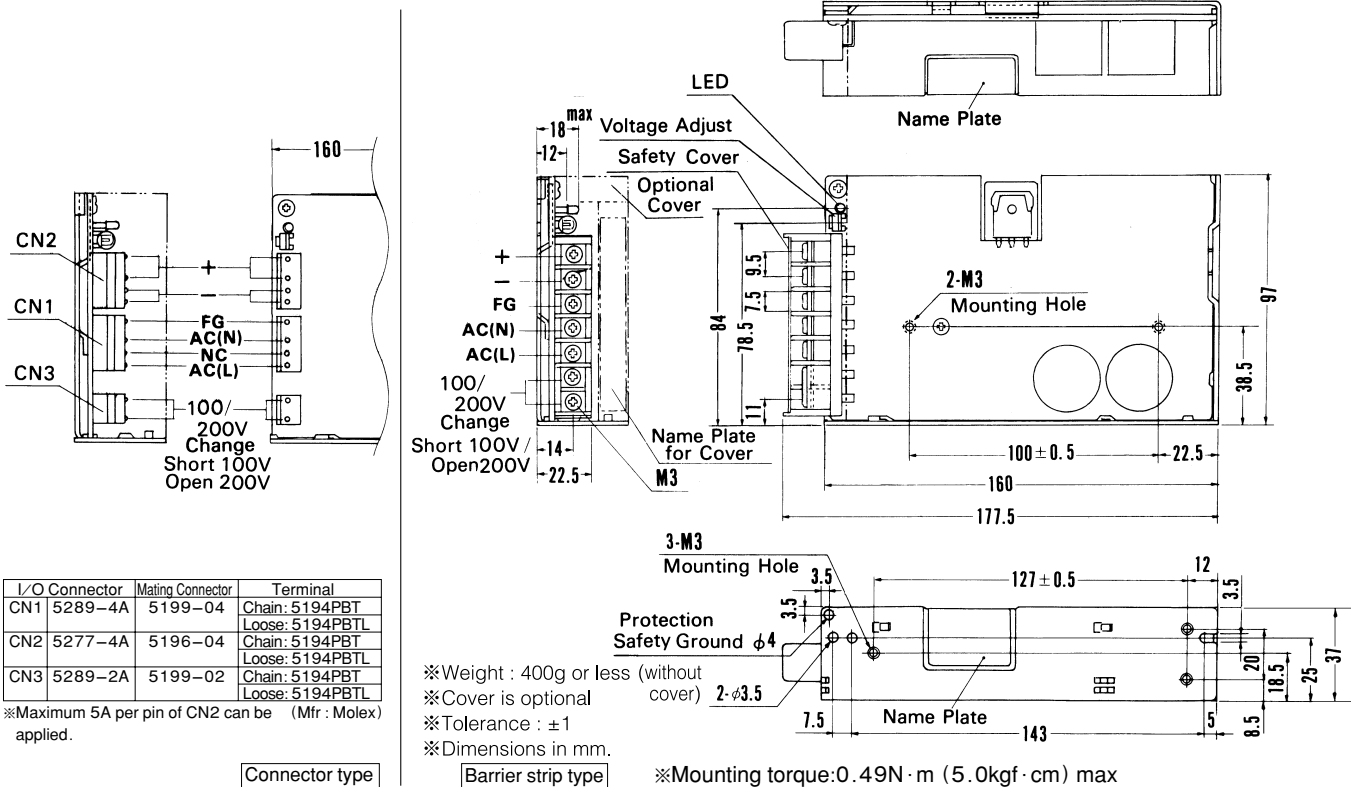
*1 The input current of the agency approved unit is indicated as 1.1A (ACIN 100V) or 0.6A (ACIN 200V).

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

* Derating is required when operated with case cover.

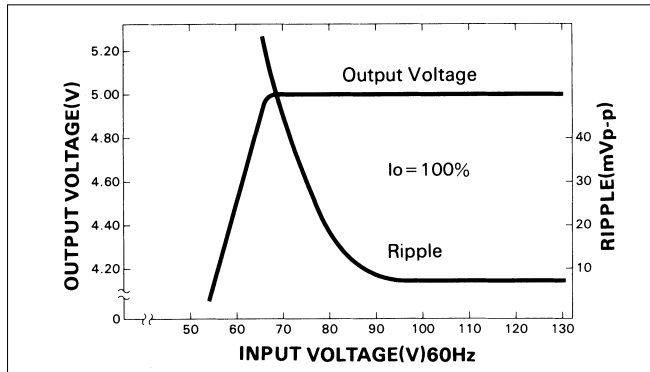
* Parallel operation with other model is not possible.

External view

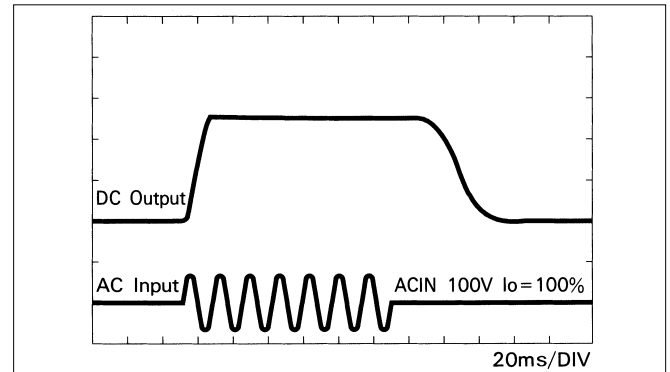


Performance data

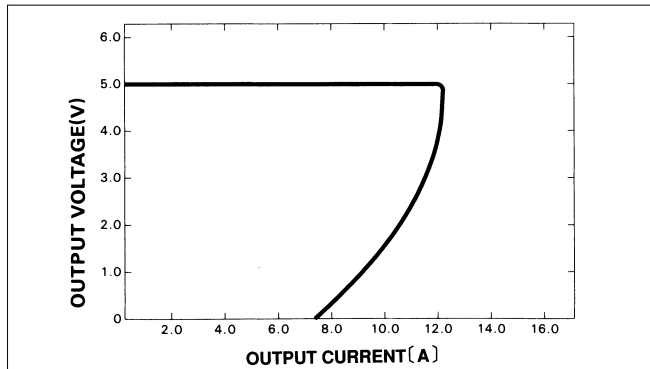
■ STATIC CHARACTERISTICS (P50E-5)



■ RISE TIME & FALL TIME (P50E-5)



■ OVERCURRENT CHARACTERISTICS (P50E-5)



■ DERATING CURVE

