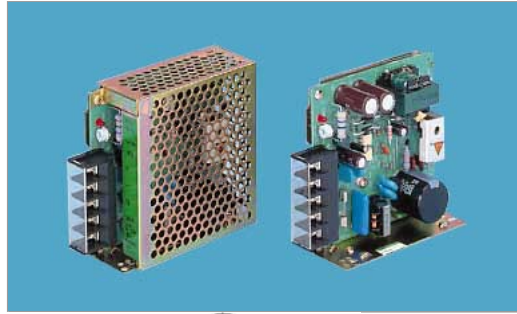


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P15E



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

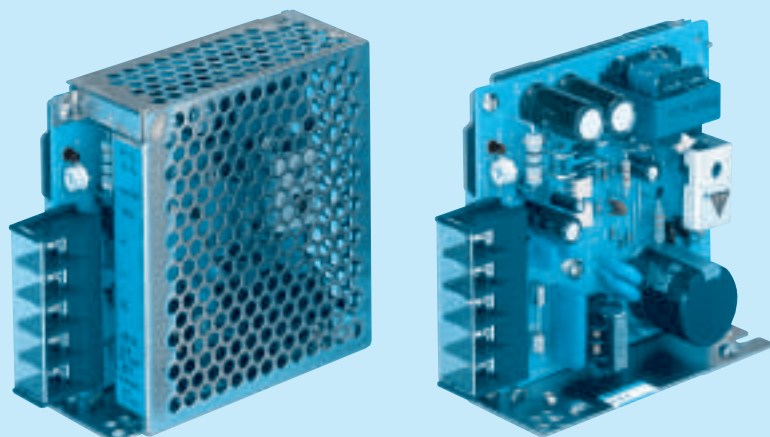
- Complies with DEN-AN
- UL1950
- CSA 22.2 No.234
- EN60950, VDE0160 (without PT1500U)

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]
P15E-5	DC 110 - 370 AC 85 - 264	15	5V 3A
P15E-9	DC 110 - 370 AC 85 - 264	15.3	9V 1.7A
P15E-12	DC 110 - 370 AC 85 - 264	15.6	12V 1.3A
P15E-15	DC 110 - 370 AC 85 - 264	15	15V 1A
P15E-18	DC 110 - 370 AC 85 - 264	16.2	18V 0.9A
P15E-24	DC 110 - 370 AC 85 - 264	16.8	24V 0.7A
P15E-30	DC 110 - 370 AC 85 - 264	15	30V 0.5A
P15E-48	DC 110 - 370 AC 85 - 264	16.8	48V 0.35A



- 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	P15E-5	P15E-9	P15E-12	P15E-15	P15E-18	P15E-24	P15E-30	P15E-48
MAX OUTPUT WATTAGE[W]	15	15.3	15.6	15	16.2	16.8	15	16.8
DC OUTPUT	5V 3A	9V 1.7A	12V 1.3A	15V 1A	18V 0.9A	24V 0.7A	30V 0.5A	48V 0.35A

SPECIFICATIONS

	MODEL	P15E-5	P15E-9	P15E-12	P15E-15	P15E-18	P15E-24	P15E-30	P15E-48
INPUT	VOLTAGE[V]	AC85 - 264 1ϕ or DC110 - 370							
	CURRENT[A]	ACIN 100V *1	0.3typ (Io=100%)						
		ACIN 200V *1	0.18typ (Io=100%)						
	FREQUENCY[Hz]	47 - 440 or DC							
	EFFICIENCY[%]	73typ	75typ	79typ	81typ	81typ	81typ	81typ	81typ
	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]	3.0	1.7	1.3	1.0	0.9	0.7	0.5	0.35
	MAX OUTPUT WATTAGE[W]	15.0	15.3	15.6	15.0	16.2	16.8	15.0	16.8
	LINE REGULATION[mV]	20max	36max	48max	60max	72max	96max	120max	192max
	LOAD REGULATION[mV]	40max	70max	100max	120max	140max	150max	180max	380max
	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	90max	120max	150max	180max	240max	300max	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							

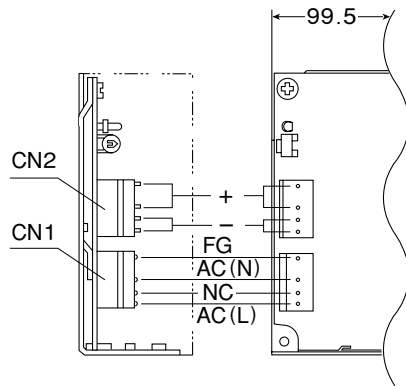
*1 The input current of the agency approved unit is indicated as 0.4A.

*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.

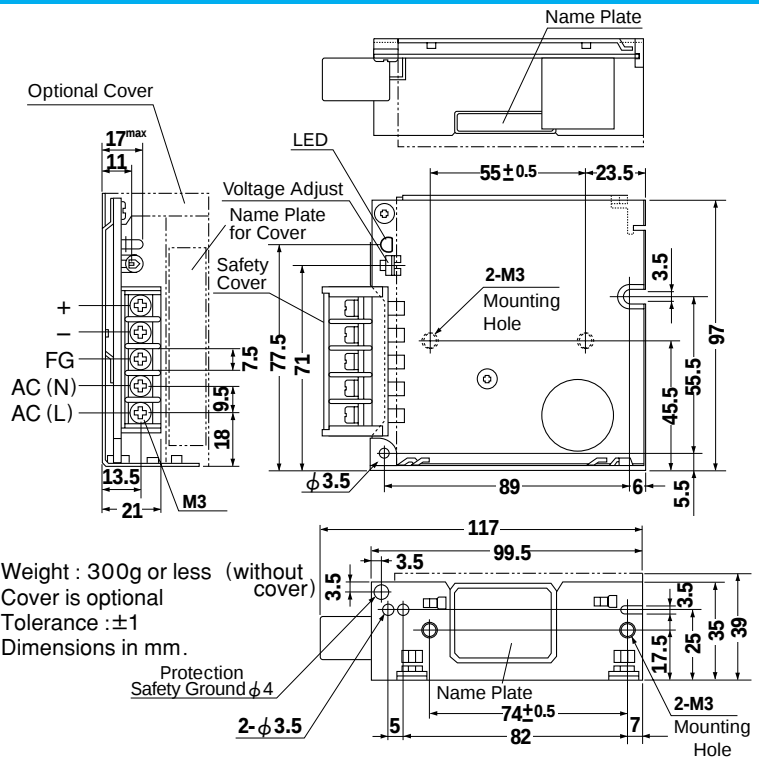
External view



I/O Connector	Mating Connector	Terminal
CN1	5289-4A	5199-04
		Chain: 5194PBT
		Loose: 5194PBT
CN2	5277-4A	5196-04
		Chain: 5194PBT
		Loose: 5194PBT

(Mfr : Molex)

Connector type



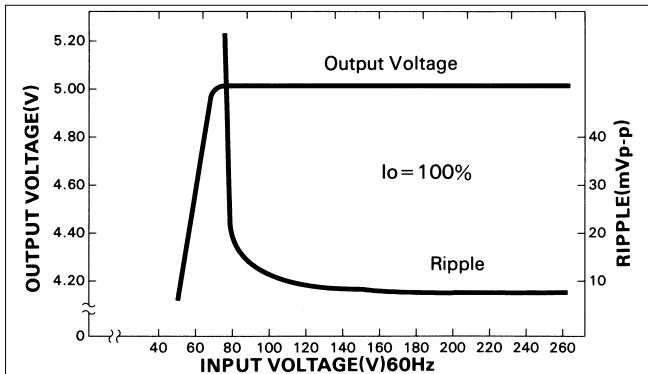
※Weight : 300g or less (without cover)
 ※Cover is optional
 ※Tolerance : ± 1
 ※Dimensions in mm.

Barrier strip type

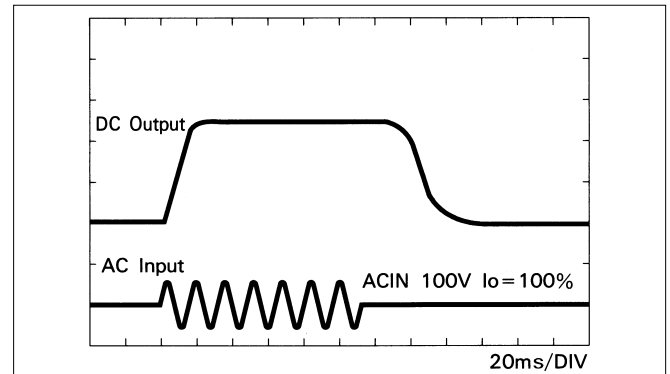
※Mounting torque: 0.6N · m (6.3kgf · cm) max

Performance data

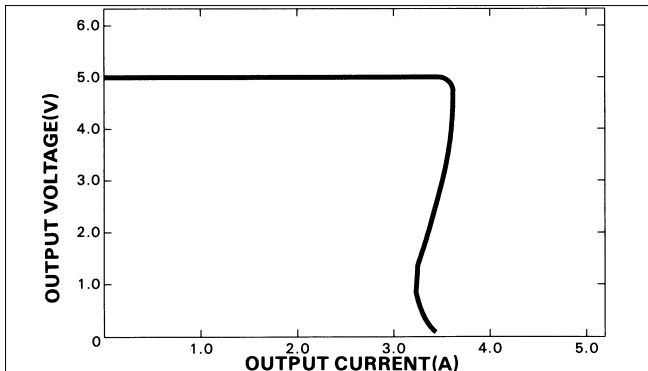
STATIC CHARACTERISTICS (P15E-5)



RISE TIME & FALL TIME (P15E-5)



OVERCURRENT CHARACTERISTICS (P15E-5)



DERATING CURVE

