P30E

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]
P30E-5	DC 110 - 370 AC 85 - 264	30	5V 6A
P30E-9	DC 110 - 370 AC 85 - 264	30.6	9V 3.4A
P30E-12	DC 110 - 370 AC 85 - 264	30	12V 2.5A
P30E-15	DC 110 - 370 AC 85 - 264	30	15V 2A
P30E-18	DC 110 - 370 AC 85 - 264	30.6	18V 1.7A
P30E-24	DC 110 - 370 AC 85 - 264	31.2	24V 1.3A
P30E-30	DC 110 - 370 AC 85 - 264	30	30V 1A
P30E-48	DC 110 - 370 AC 85 - 264	30.24	48V 0.63A

COSEL **Unit type**

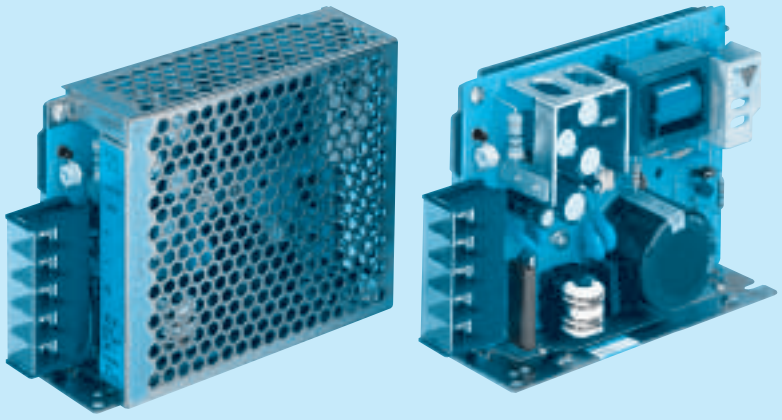
P30E

Ordering information

P	30	E	-5	-□
①	②	③	④	⑤

(LVD)

RoHS



①Series name
②Output wattage
③UL recognized,TÜV approved,
CSA certified:E
④Output voltage
⑤Optional
C :with Coating
G :Low leakage current
J :Connector type
N :with Cover

MODEL	P30E-5	P30E-9	P30E-12	P30E-15	P30E-18	P30E-24	P30E-30	P30E-48
MAX OUTPUT WATTAGE[W]	30	30.6	30	30	30.6	31.2	30	30.24
DC OUTPUT	5V 6A	9V 3.4A	12V 2.5A	15V 2A	18V 1.7A	24V 1.3A	30V 1.0A	48V 0.63A

SPECIFICATIONS

	MODEL		P30E-5	P30E-9	P30E-12	P30E-15	P30E-18	P30E-24	P30E-30	P30E-48
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC110 - 370							
	CURRENT[A]	ACIN 100V ※1	0.6typ (Io=100%)							
		ACIN 200V ※1	0.35typ (Io=100%)							
	FREQUENCY[Hz]		47 - 440 or DC							
	EFFICIENCY[%]		74typ	74typ	78typ	79typ	79typ	82typ	82typ	82typ
	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]		6.0	3.4	2.5	2.0	1.7	1.3	1.0	0.63
	MAX OUTPUT WATTAGE[W]		30	30.6	30	30	30.6	31.2	30	30.24
	LINE REGULATION[mV]		20max	36max	48max	60max	72max	96max	120max	192max
	LOAD REGULATION[mV]		40max	70max	100max	120max	140max	150max	180max	300max
	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/s² (2G), 3minutes period, 30minutes each along X, Y and Z axis							
	IMPACT		196.1m/s² (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 0.7A.
※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.

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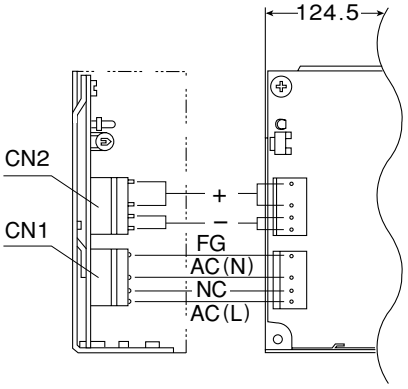
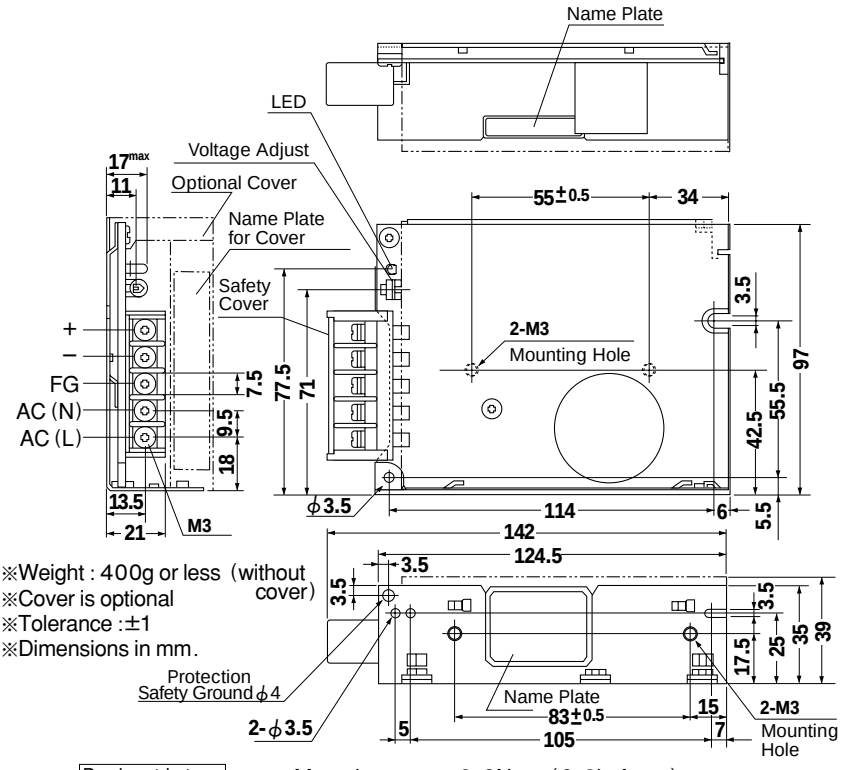
External view



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

(Mfr : Molex)

Connector type



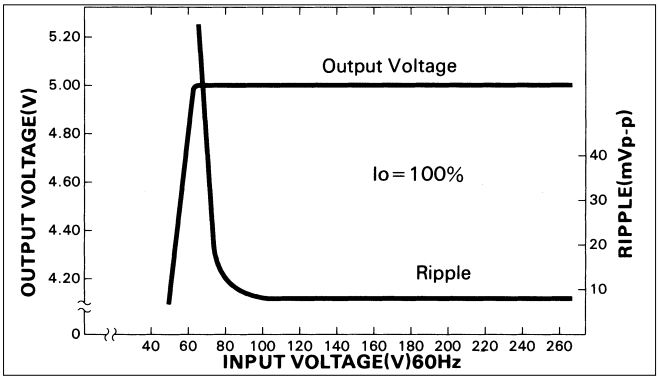
※Weight : 400g or less (without cover)
※Cover is optional
※Tolerance : ±1
※Dimensions in mm.

Barrier strip type

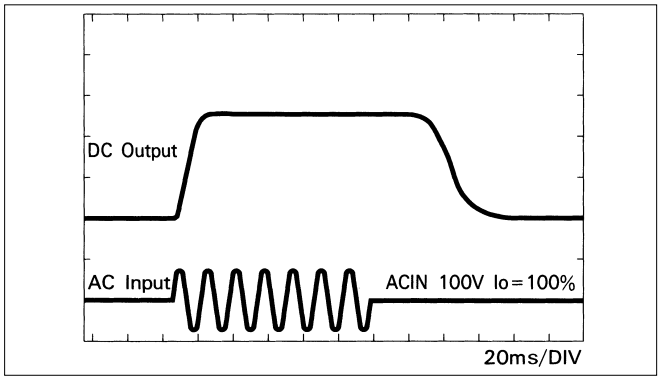
※Mounting torque:0.6N·m (6.3kgf·cm) max

Performance data

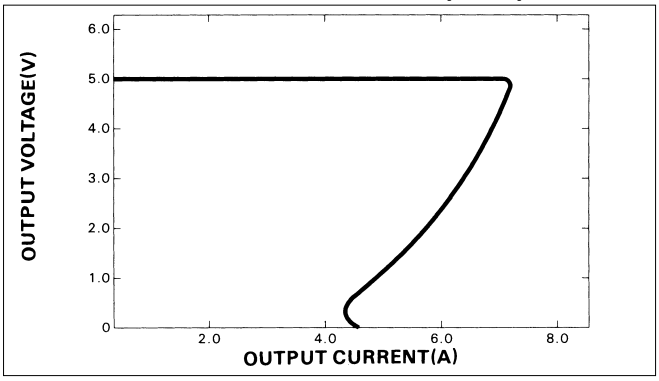
■STATIC CHARACTERISTICS (P30E-5)



■RISE TIME & FALL TIME (P30E-5)



■OVERCURRENT CHARACTERISTICS (P30E-5)



■DERATING CURVE