



- 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°C	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°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	UL1950, EN60950, VDE0160, CSA C22.2 No.234 Complies with DEN-AN and IEC60950							
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.