

**ELC50**

V005-01-01A

SPECIFICATIONS

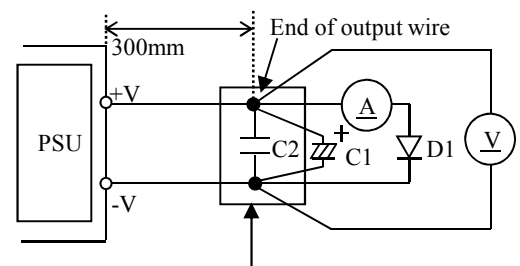
ITEMS		MODEL	ELC50-48-1R05
1	Nominal Output Current	A	1.05
2	Output Voltage Range	V	6 - 48
3	Maximum Output Power	W	50.4
4	Efficiency (Typ.) (*1)	100VAC	% 83
		200VAC	% 84
5	Input Voltage Range (*2)	-	90 - 305VAC (47Hz - 63Hz)
6	Input Current (Typ.) (*1)	-	0.66A at 100VAC, 0.33A at 200VAC
7	Inrush Current (Typ.) (*3)	-	25A at 100VAC, 50A at 200VAC, Ta = 25°C, Cold Start
8	Harmonic Current	-	Designed to meet IEC61000-3-2 Class C (Load: 100VAC: ≥50%, 230VAC: ≥80%)
9	Power Factor (Typ.) (*1)	-	0.98 at 100VAC, 0.93 at 200VAC
10	Output Current Accuracy (*4,5)	-	±5%
11	Total Regulation (*5)	-	±5%
12	Short Circuit Protection	-	Automatic recovery
13	Over Voltage Protection (*6)	-	>110%
14	Turn On Time (Typ.)	-	400 ms at 25°C
15	Operating Temperature (*7)	-	-25 - +50°C
16	IP Class (*8)	-	IP66
17	Operating Humidity	-	15 - 90%RH (No Condensing)
18	Storage Temperature	-	-30 - +85°C
19	Storage Humidity	-	15 - 90%RH (No Condensing)
20	Cooling	-	Convection Cooling
21	Withstand Voltage (*9)	-	Input - (Output & FG) ... 3kVAC, for 1 min (10mA Max)
22	Isolation Resistance	-	>100MΩ at 25°C and 70 %RH. Output - FG : 500VDC
23	Leakage Current (*10)	-	Less than 0.25mA. 0.05mA(Typ) at 100VAC / 0.1mA(Typ) at 200VAC
24	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s <sup>2</sup> Constant, X,Y,Z 1hour each.
25	Shock (In Package)	-	Less than 196.1m/s <sup>2</sup>
26	EMI (Conducted & Radiated Emission)	-	Designed to meet EN55015 ; EN55022-B ; VCCI-B ; CISPR 22-B ; FCC-B
27	Immunity	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11
28	Safety Standard	-	PSE mark (Den-an Appendix 8) Designed to meet UL8750, EN61347-1, EN61347-2-13, EN62384
29	Weight (Typ.)	g	830
30	Size (L x W x H)	mm	L:228 (253 including mounting bracket) W:45.5 H:40.2

\*Read instruction manual carefully, before using the power supply unit.

=NOTES=

- \*1 : At maximum output power, Ta = 25°C after warm up.
- \*2 : For cases where conformance to various safety specs (UL,Den-an,EN) are required, to be described as 100-240VAC (100-277V for USA), 50/60Hz on name plate.
- \*3 : Not applicable for the in-rush current to noise filter for less than 0.2ms.
- \*4 : At Vin=100/200VAC & maximum output power, Ta = 25°C.
- \*5 : Refer to Fig. A for measurement determination.
- \*6 : OVP circuit will shutdown output, manual reset (Re-power on).
- \*7 : For cases where conformance to safety specs, operating case or ambient temperature will be specified. Please refer instruction manual.
- \*8 : Conditions : Please refer instruction manual.
- \*9 : Output and FG must be shorted together when testing. Otherwise PS will be spoiled.
- \*10 : Measured by measuring method of Den-an (at 60Hz), Ta=25°C.

**Figure A measurement setup**



Measurement point for output voltage.

- D1 = LED Load
- C1 = No need
- C2 = No need

**ELC50**

V005-01-02

OUTPUT DERATING

\*COOLING : CONVECTION COOLING

Derating Table	Ta (°C)	LOAD (%)
ELC50-48-1R05	-25 - +50	12.5 - 100

