ELC90

V007-01-01C

SPECIFICATIONS

	ITEMS / MODEL			ELC90-130-R70
1	Nominal Output Current		A	0.70
2	Output Voltage Range		V	50 - 130
3	Maximum Output Power		W	91
4	Efficiency (Typ.) (*1)	100VAC	%	85
		200VAC	%	88
5	Input Voltage Range (*2)		-	90 - 305VAC (47Hz - 63Hz)
6	Input Current (Typ.) (*1)		-	1.13A at 100VAC, 0.56A 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/230VAC:50% - 100%)
9	Power Factor (Typ.) (*1)		-	0.99 at 100VAC, 0.95 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		-	Input - FG : 3kVAC (10mA), Input - Output : 4kVAC (10mA) Output - FG : 2kVAC (10mA) for 1min
22	Isolation Resistance		-	>100MΩ at 25°C and 70 %RH. Output - FG : 500VDC
23	Leakage Current (*9)		-	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^2 Constant, X,Y,Z 1hour each.
25	Shock (In Package)		-	Less than 196.1m/s^2
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		-	Approved by Den-an (Appendix 8, Appendix 10) UL8750, CSA C22.2 No.250.13, EN61347-1, EN61347-2-13
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, CSA, EN, Den-an) 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.

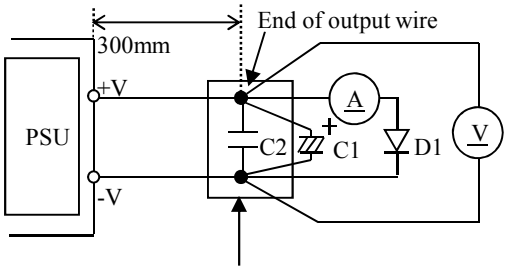
*6 : OVP circuit will shutdown output, manual reset (Re-power on).

*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 : 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

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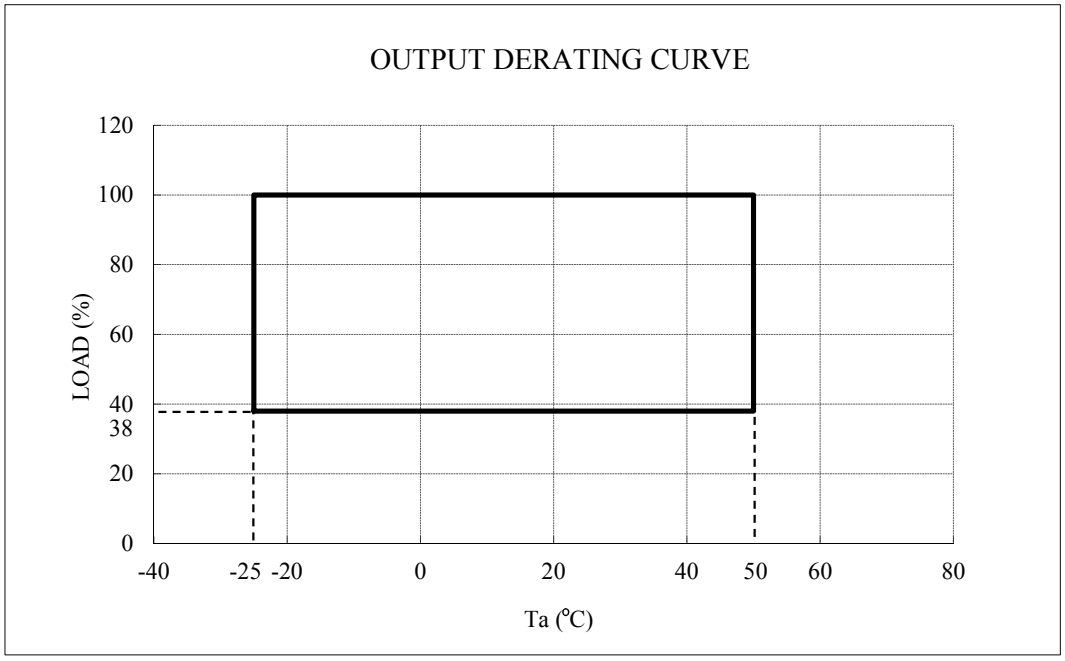
ELC90

V007-01-02

OUTPUT DERATING

*COOLING : CONVECTION COOLING

Derating Table	Ta (°C)	LOAD (%)
ELC90-130-R70	-25 - +50	38 - 100



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