

**ELC12**

SPECIFICATIONS

V003-01-01G

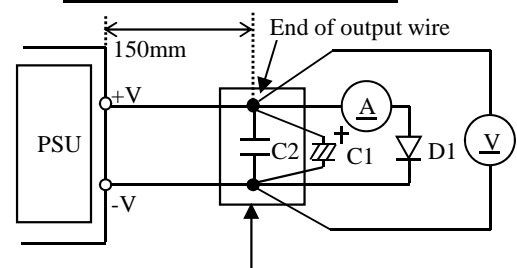
ITEMS		MODEL	ELC12-18-R70	ELC12-36-R35
1	Nominal Output Current	A	0.70	0.35
2	Output Voltage Range	V	3 - 18	6 - 36
3	Maximum Output Power	W	12.6	12.6
4	Efficiency (Typ) (*1)	100VAC	81	83
		200VAC	82	84
5	Input Voltage Range (*2)	-	90 - 265 VAC (47Hz - 63 Hz)	
6	Input Current (Typ.) (*1)	A	0.28A at 100VAC, 0.18A at 200VAC	
7	Inrush Current (Typ.) (*3)	-	25A at 100VAC, 50A at 200VAC, Ta = 25°C, Cold Start	
8	Output Current Accuracy (*4,5)	-	±5%	
9	Total Regulation (*11)(*5)	-	±5%	
10	Short Circuit Protection	-	Hiccup (Automatic recovery)	
11	Over Voltage Protection (*6)	-	>110%	
12	Turn On Time (Typ.)	ms	150	
13	Operating Temperature (*7)(*10)	-	Convection : -10 - +60°C(+50 - +60°C : Vin=90VAC - 132VAC (169VAC))	
14	IP Class (*8)	-	IP66	
15	Operating Humidity	-	15 - 90%RH (No Condensing)	
16	Storage Temperature	-	-30 - +85°C	
17	Storage Humidity	-	15 - 90%RH (No Condensing)	
18	Cooling	-	Convection Cooling	
19	Withstand Voltage	-	Input - FG : 2kVAC, Input - Output : 3kVAC, for 1 min (10mA Max.)	
20	Isolation Resistance	-	>100MΩ at 25°C and 70 %RH. Output - FG : 500 VDC	
21	Leakage Current (*9)	-	Less than 0.5mA. 0.15mA(Typ.) at 100VAC / 0.3mA(Typ.) at 200VAC	
22	Vibration	-	At no operating, 10 - 55Hz (Sweep for 1min) 19.6m/s <sup>2</sup> Constant, X,Y,Z 1hour each.	
23	Shock (In Package)	-	Less than 196.1m/s <sup>2</sup>	
24	EMI (Conducted & Radiated Emission)	-	Designed to meet EN55015 ; EN55022-B ; VCCI-B ; CISPR 22-B ; FCC-B	
25	Immunity	-	Designed to meet IEC61000-6-2 IEC61000-4-2, -3, -4, -5, -6, -8, -11	
26	Safety Standard	-	Den-an (Appendix 8, Appendix 10), UL8750 (Class 2), CSA C22.2 No.250. 13-12 (Class 2)	
27	Weight (Typ.)	g	230	
28	Size (L x W x H)	mm	L:104(122 including mounting bracket) W:36.5 H:27.2	

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

=NOTES=

- \*1 : At maximum output power , Ta = 25°C.
- \*2 : For cases where conformance to safety spec (Den-an) is required, to be described as 100-240VAC, 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 : Please refer instruction manual.
- \*9 : Measured by measuring method of Den-an (at 60Hz), Ta=25°C.
- \*10 : Input voltage deratings  
-Refer to derating curve(V003-01-02\_).
- \*11 : Output Voltage Range : 40%-100% at Vin=90-169VAC,  
50%-100% at Vin =170-265VAC

**Figure A measurement set up**



Measurement point for output voltage,

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

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OUTPUT DERATING

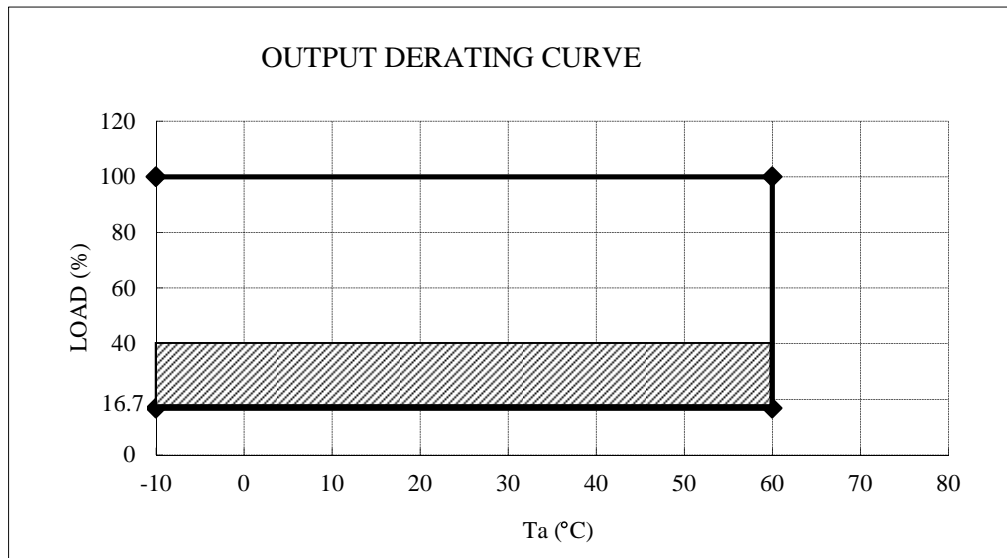
V003-01-02

(1) Vin=90 - 132VAC(169VAC)

\*COOLING : CONVECTION COOLONG

Ta (°C)	LOAD (%)
-10 - +60	100


 ... 16.7% ~40%  
Please refer to instruction manual



(2) Vin=170 - 265VAC

\*COOLING : CONVECTION COOLONG

Ta (°C)	LOAD (%)
-10 - +50	100

 ... 16.7% ~50%  
Please refer to instruction manual

