



PREMIUM QUALITY LIGHTING

DIMMABLE DRIVER

FOR 45W PANELS

TECHNICAL DATA SHEET



DESCRIPTION

- This product is suitable for the outer panel light as well as other LED lamps and lanterns.
- It is compliant with IP20 standards.
- 10%-100%, 1 - 10V dimmer or resistance dimmer and dimmer effect is a good, the dimming range 10% - 100%.
- This product of output DC27-42V 700mA, has already passed CE, SAA, PSE, ENEC,CB,UL,FCC certification

SAFETY

- In the lighting power supply circuit, it is recommended that the customer install over-under-voltage protection and surge protection device, to ensure the safety of electricity.
- Lamps and lanterns with power supply to use PC cover, inside enclosure, plug suite must meet UL94V-0 fire rating.

INPUT CHARACTERISTICS

Name	MIN. LOAD	RATED LOAD	MAX. LOAD	UNITS	REMARKS
Input Voltage	90	110/220/277	305	VAC	
Input Frequency	47	50/60	63	Hz	
Input Current	--	--	0.5	A	90Vac Full load
Inrush Current (cold start)	--	--	20	A	220Vac Full load

LOAD CHARACTERISTICS

Start-up Delay Time	--	--	≤0.5	S	100Vac/220Vac Full load
Input Line Regulation	--	--	≤5	%	42Vdc Full load
Output Line Regulation	--	--	≤5	%	27Vdc Light load
No-load power consumption	--	--	0.8	W	110Vac Input
	--	--	1.2	W	220Vac Input
Temperature Drift	--	--	≤10	%	220Vac Full load

ELECTRICAL PERFORMANCE

Output Voltage Range	Output Current Range	Output Power	Input Voltage	Power Factor	Efficiency	Current Harmonics	Output Ripple	Current Accuracy
Vdc	mA	W	Vac	100%	%	%	Vac	
27-42	700>I≥680	30W	110	0.96	82	11	1	±5%
			220	0.92	82	13	1	±5%
			277	0.83	82	29	1	±5%
27-42	680>I≥660	29W	110	0.96	82	11	1	±5%
			220	0.91	82	14	1	±5%
			277	0.82	81	27	1	±5%
27-42	660>I≥640	28W	110	0.96	83	11	1	±5%
			220	0.91	82	15	1	±5%
			277	0.81	81	28	1	±5%
27-42	640>I≥620	27W	110	0.96	82	11	1	±5%
			220	0.9	82	16	1	±5%
			277	0.8	82	>30	1	±5%
27-42	620>I≥600	27W	110	0.96	83	11	1	±5%
			220	0.9	82	17	1	±5%
			277	0.8	81	>30	1	±5%
27-42	600>I≥580	26W	110	0.96	82	11	1	±5%
			220	0.9	81	18	1	±5%
			277	0.79	81	30	1	±5%
27-42	580>I≥550	25W	110	0.96	83	11	1	±5%
			220	0.89	82	19	1	±5%
			277	0.78	81	>30	1	±5%



PREMIUM QUALITY LIGHTING

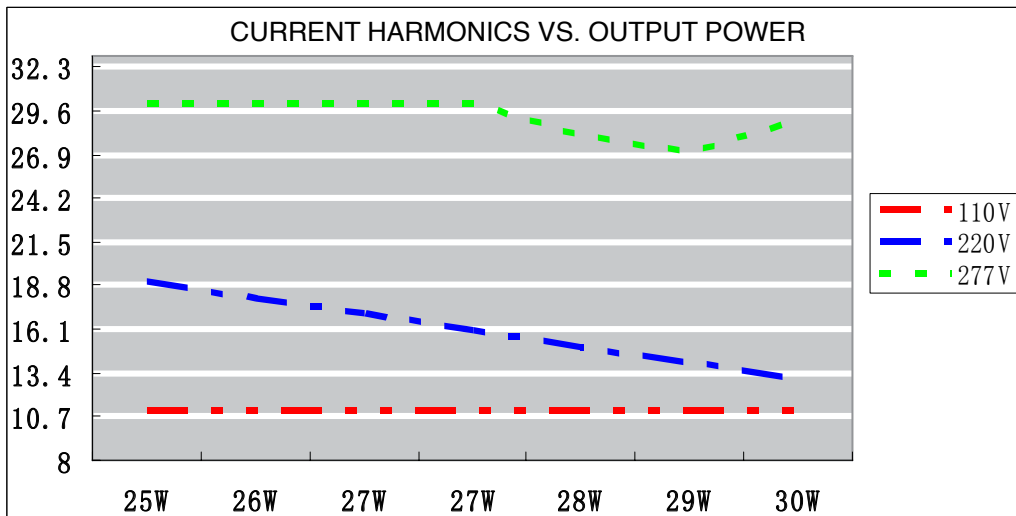
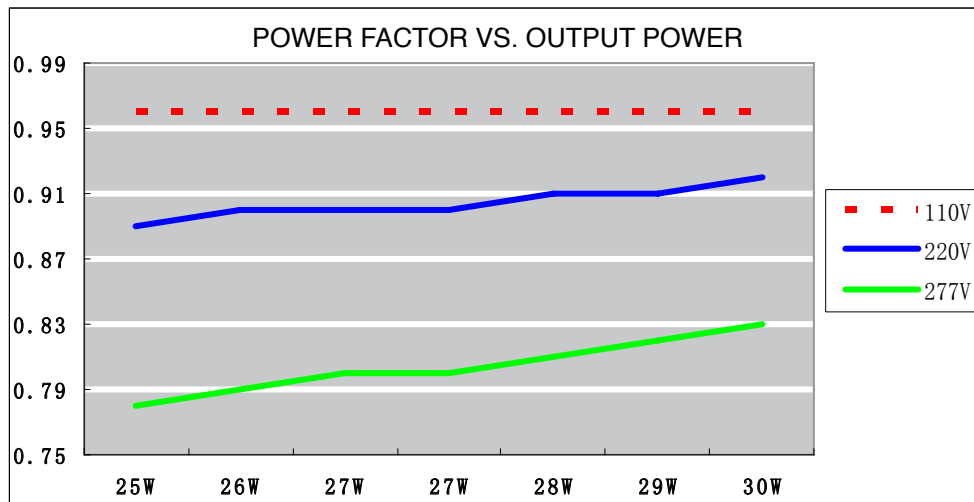
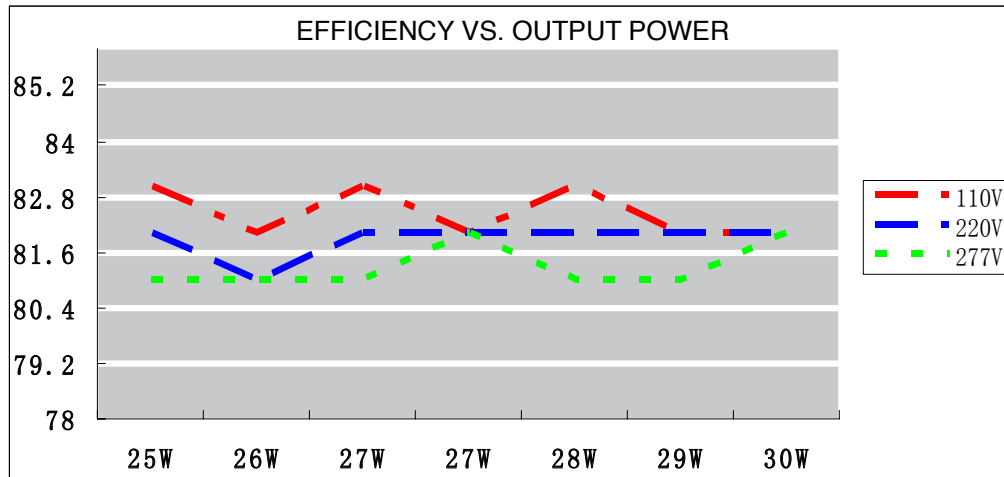
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TYPICAL CHARACTERISTICS



REMARKS

- The parameters above are obtained under the testing condition of full load.
- The parameters table above includes all variants based on standard model, if special parameters are required, R&D will do evaluation first before deciding modification.
- The data above are obtained under ambient temperature of 25°C and 50% RH.

PROTECTION REQUIREMENTS

Protections	Specs	Remark
Output open circuit protection	Output voltage $\leq 50V_{dc}$	--
Output short circuit protection	Short circuit output when the input power $\leq 8W$	--

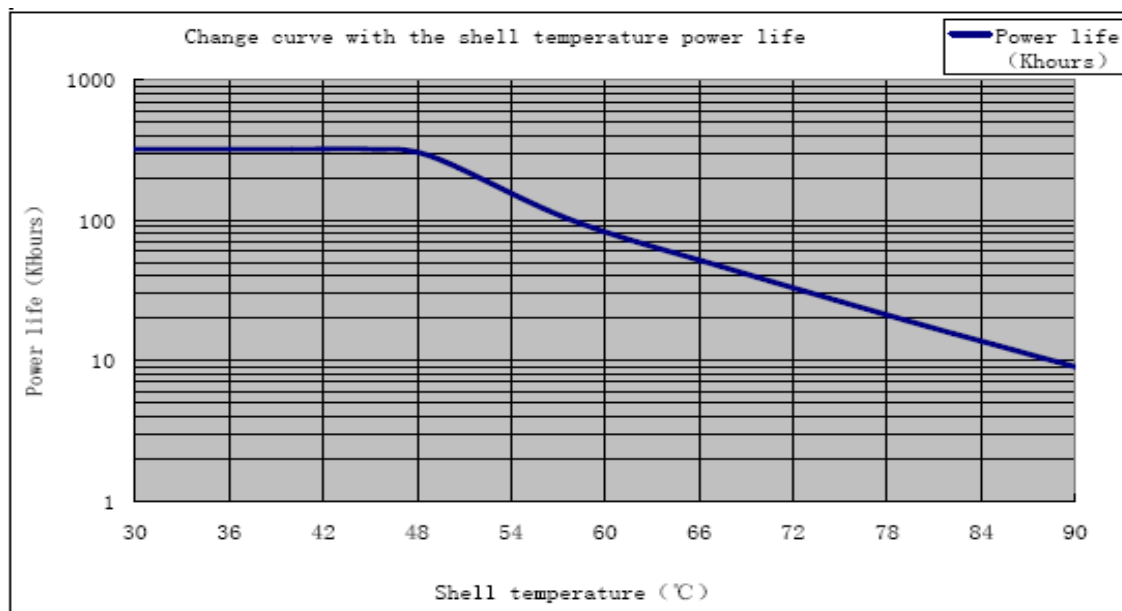
ENVIRONMENTAL REQUIREMENTS

Name	Min. Load	Rated Load	Max. Load	Units	Remarks
Operating Temperature	-30	25	40	°C	--
Operating Humidity	10	--	90	%RH	--
Storage Temperature	-30	40	65	°C	--
Pressure	86	--	106	KPa	--

RELIABILITY REQUIREMENTS

ALL(100%)of our products should be gotten burn-in test under the condition of at least $40^{\circ}C \pm 5^{\circ}C$ in full load for 4 hours.

PRODUCT LIFE CURVE



PRODUCT LIFE CURVE

Category	Item	Standard	Remarks
Safety conformity	Hi-pot test	UL8750/IEC61347-1/ IEC61347-2-13	GB7000.1/GB7000.1 standards, Input vs. Output 4KV, leakage current $\leq 5mA$
Operating Humidity	Insulation resistance		100M Ω /500Vdc Input vs. Output > 100M Ω @500Vdc
EMC conformity	EMI	EN55015/EN61000-3-3 part15 standards	1 KV surge protection
Pressure	EMS	EN61547 standards	