



PREMIUM QUALITY LIGHTING

# DIMMABLE DRIVER

## FOR 53W 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 parameter of output DC27-42V 1500mA 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	--	--	0.8	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	%	30Vdc Light load
No-load power consumption	--	--	0.8	W	110Vac Input
	--	--	0.8	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	
30-42	1500≥I≥1400	63W	110	0.96	86	11	1	±5%
			220	0.93	87	11	1	±5%
			277	0.89	87	11	1	±5%
30-42	1400>I≥1300	59W	110	0.96	86	12	1	±5%
			220	0.93	86	12	1	±5%
			277	0.88	86	12	1	±5%
30-42	1300>I≥1200	55W	110	0.96	86	18	1	±5%
			220	0.93	86	18	1	±5%
			277	0.87	86	18	1	±5%
30-42	1200>I≥1100	51W	110	0.96	86	20	1	±5%
			220	0.92	85	20	1	±5%
			277	0.84	85	20	1	±5%

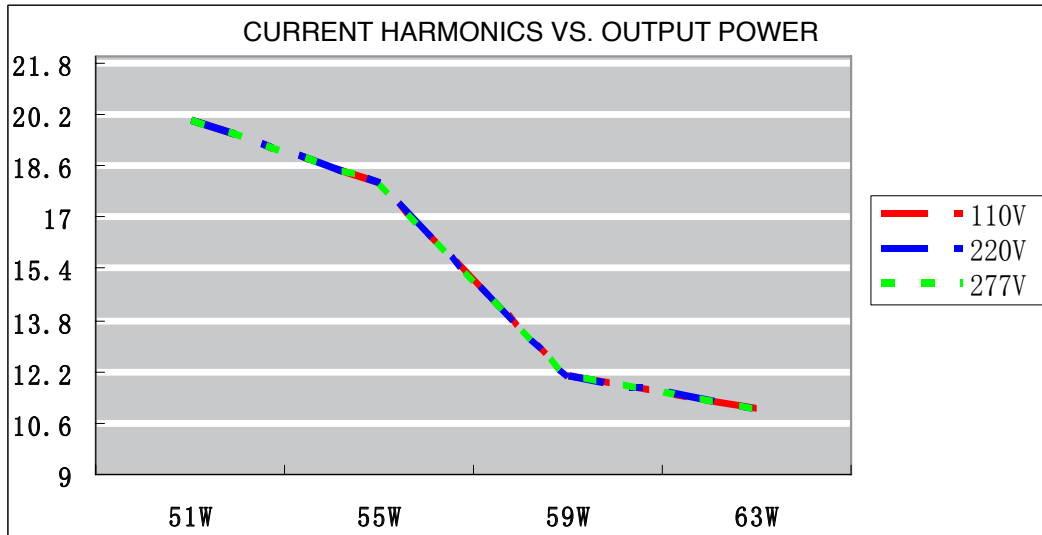
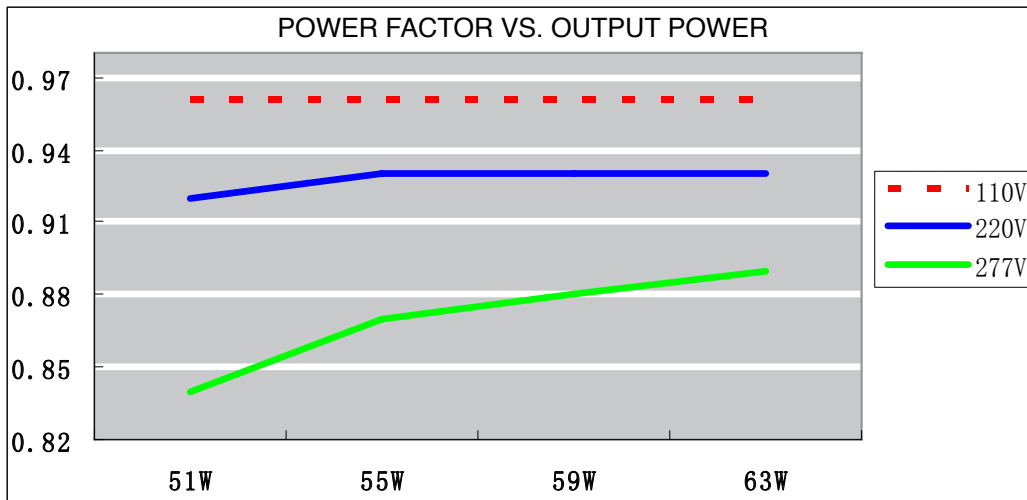
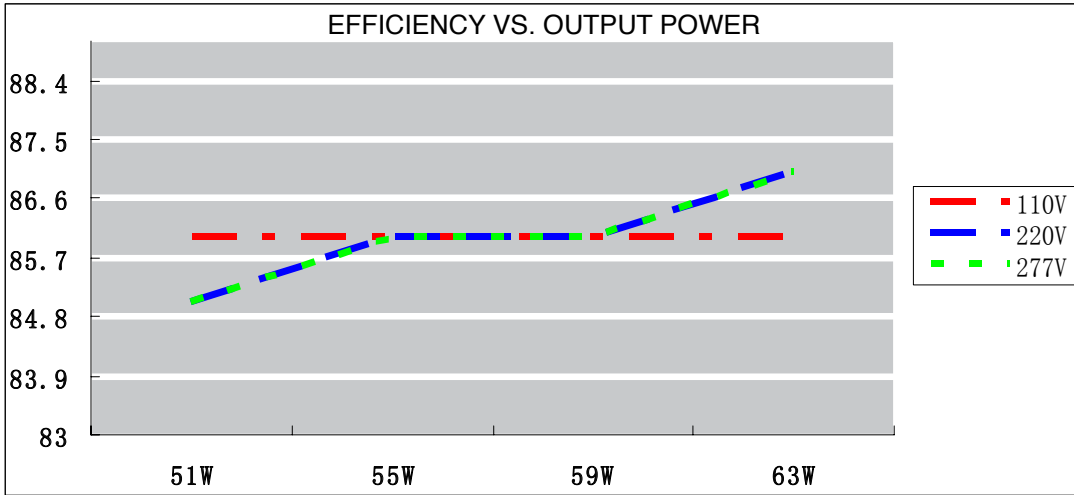


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## TYPICAL CHARACTERISTICS



### 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 $\leq 40W$	--

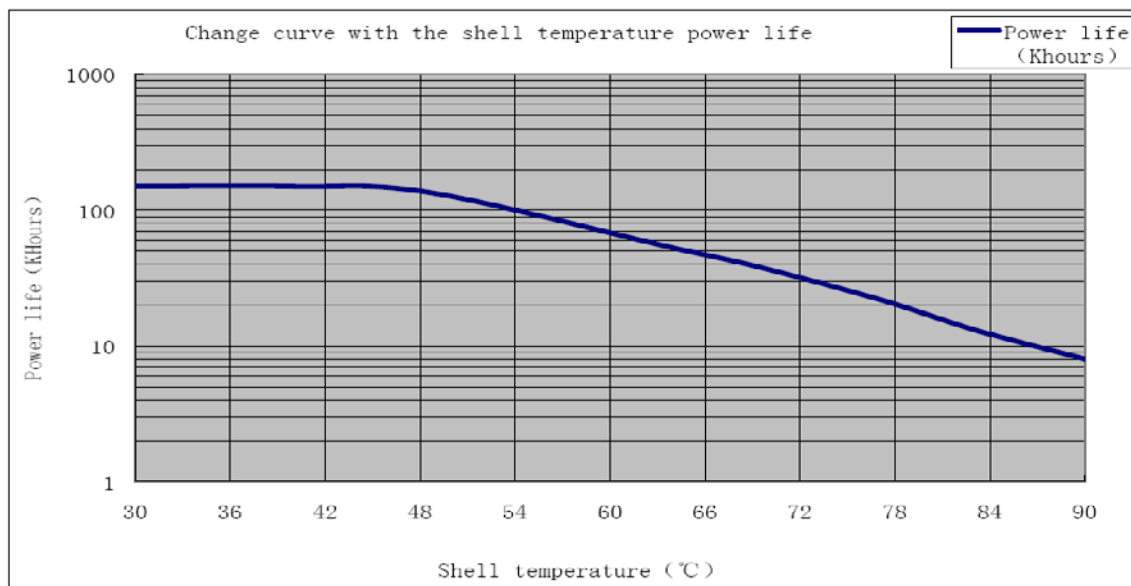
## ENVIRONMENTAL REQUIREMENTS

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



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Category	Item	Standard	Remarks
Safety conformity	Hi-pot test	UL8750/IEC61347-1/ IEC61347-2-13	GB7000.1/GB7000.1 standards, Input vs. Output 3.75KV, leakage current $\leq 5mA$
Operating Humidity	Insulation resistance		100M $\Omega$ /500Vdc Input vs. Output > 100M $\Omega$ @500Vdc
EMC conformity	EMI	EN55015/EN61000-3-3 part15 standards	1 KV surge protection
Pressure	EMS	EN61547 standards	