

AL DHAW AL MATHALI LIGHTING EQUIPMENT TRADING L.L.C

INDUSTRIAL AREA 13, SHOP NO. B-6 TESHEEL PARKING SHARJAH, U.A.E TELEPHONE: +971 6 5353 014 MOBILE 971 50 6424 503



300W Single output waterproof led driver (Constant Voltage Type)

FRU-300 Series



Features

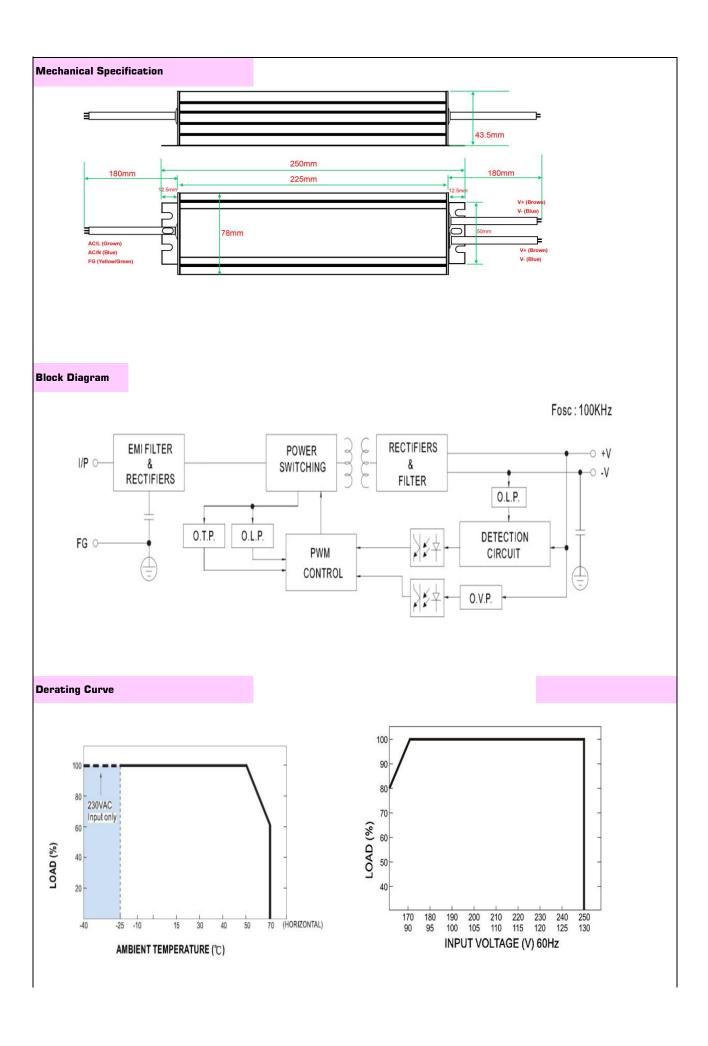
- 1. 5 years warranty
- 2. High efficiency 89%
- 3. Smaller size
- 4. Economical design
- $5. \ \ \text{Protections: Short-circuit /Over-load /Over-voltage /Over-temperature / Lightning protection} \\$
- 6. Working temperature : -25°C \sim + 50°C
- 7. IP67 design
- 8. $2\sim3$ times burn-in tests (+40°C at full load with over 14 hours)

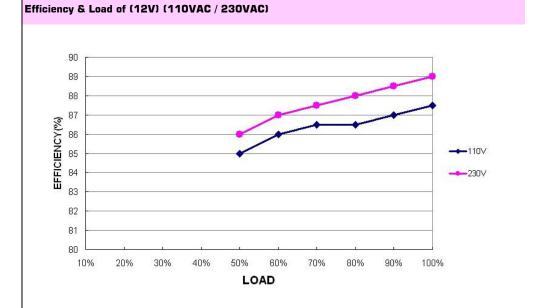
Application

Led strips, electronics display screen, outdoor instruments and machines.....etc

Specification Sheet

		I		
Model	FRU-300 Series	FRU-300-12	FRU-300-24	FRU-300-36
Output	Rated Voltage (Not	12VDC	24VDC	36VDC
	Output Current Range	0 ~ 25.0A	0 ~12.5A	0 ~8.3A
	Rated Power	300W	300W	300W
	Ripple and Noise (Max)(Note	120mVp-p	150mVp-p	150mVp-p
	Voltage Tolerance	±5.0%	±5.0%	±5.0%
	Line Regulation	±1%	±1%	±1%
	Load Regulation	±1.0%	±1.0%	±1.0%
	Set-up, Rise Time	1500ms 80ms/230VAC, 2000ms 80ms/110VAC		
	Hold-up Time	50ms/230VAC at full load, 25ms/110VAC at full load		
Input	Voltage Range	90~130VAC / 170~264VAC		
	Frequency Range	47~63Hz		
	Efficiency (Not	89.0%	91.0%	92.0%
	AC Current	1.3A ~ 3.9A		
	Inrush Current	Cold Start at 70A/230VAC, Input at Ta: 25°C cold start.		
	Leakage Current	< 0.5mA at 230VAC, 60Hz Input		
Protection	Over-Voltage	110% ~ 130% (Shut down O/P voltage, repower on to recover)		
	Over-load	130% ~ 150% (Shut down O/P voltage, repower on to recover)		
	Short Circuit	Hiccup mode, recovers automatically after faulty problem is removed		
	Lightning Protection (Altern	Gas discharge tube automatically open to discharge, repower on to recover		
	Over-temperature	85°C±10°C (Shut down O/P voltage, re-power on to recover)		
Environment	Working Environment	-25°C ~ +50°C		
	Working Humidity	20~90% RH non-condensing		
	Storage Environment & Humidity			
	TEMP. Coefficient	±0.05%°C (0~50°C)		
	Vibration	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes		
Safety & EMC Others	Safety Standards	EN-61347-1, EN61347-2-13, IP67, ROHS Tests, Design refer to UL8750		
	Withstand Voltage	I/P-O/P: 3KVAC, IP-FG:1.5KVAC, OP-FG: 500VAC		
	Isolation Resistance	I/P-O/P IP-FG OP-FG: 100M Ohms/500VDC / 25°C / 70% RH		
	EMC Emission	Compliance to EN55015: 2007, EN61547:1995+A1:2000; EN61000-3-2: 2006; EN61000-3-3: 2008		
	No Load power consumption ≤3.5W			
		250K hrs min, MIL-HDBK-217F	(25°C)	
		250*78*43.5mm (L*W*H)		
		12pcs/carton		
	Weight	1.6Kg/pcs		
Notes	Winging Incomplete Inc			
	In parameter are integrated as further acting the acting to the control of the co			
	2. Ripple & Noisy are measured at 20KHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1 uf & 47uf parallel capacitor (at full load)			
	3. The efficiency measured at Max output voltage, and 230VAC with full load, if with 110VAC the efficiency will be lowered 1% ~ 2%; Working 1~2			
	hours, efficiency will be higher 0.5% — 1% than the initial stage			
	4. This measured at 12040, 80% -85% load with environmental temperature about +25°C~+30°C, the outer nousing temperature with +55°C			
	5. Inis measured at 120VAC, 80% -85% load with environmental temperature about +25%-+30%, the outer nousing temperature with +55% to			
	50			
	6. More details see the following mechanical draft.			





Waterproof connector (Alternative or customized)

The waterproof connector is usually used to easily assemble and replace in projects. It have waterproof performance when in use.

