



Antron Electronics Co.,LTD
安雄電子股份有限公司

Constant Power Emergency LED Driver



Model Name	4EMLEDS30-1555-9.6CHPNB-FT 25W
Output Model	Constant Power
Input Voltage	347-480 Vac
Input Frequency	50/60 Hz
Dimming	N/A
Surge Rating	3KV
Warranty	5 Years TC $\leq 60^{\circ}\text{C}$ 3 Years TC $\leq 70^{\circ}\text{C}$

Product Specification



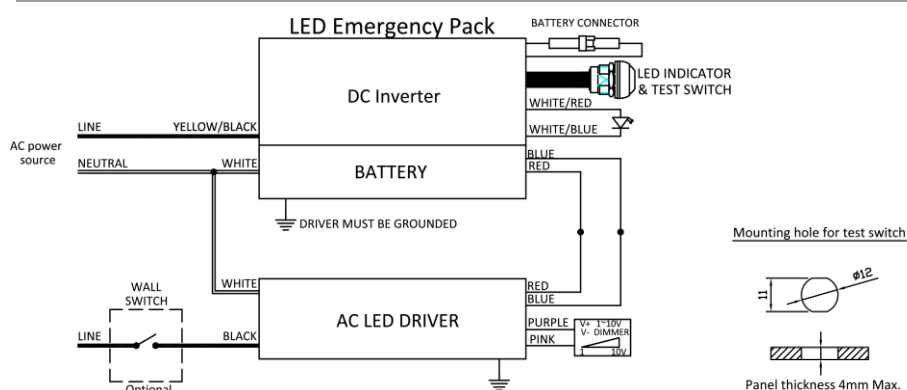
Class2



(UL.CEC Pending)

Output Power (W)	Output Voltage (V)	Output Current (mA)	Operating Duration Time	Operating Temp. ($^{\circ}\text{C}$)	Battery Voltage (V)	Battery Charge Current (mA)	Battery Charge Time	Input Power (W)	Input Current (mA)
Typ. 25	15-55	1666-454	Min. 90min	0-55	9.6	Max. 450	Min. 24Hrs	Max. 11	Max. 130

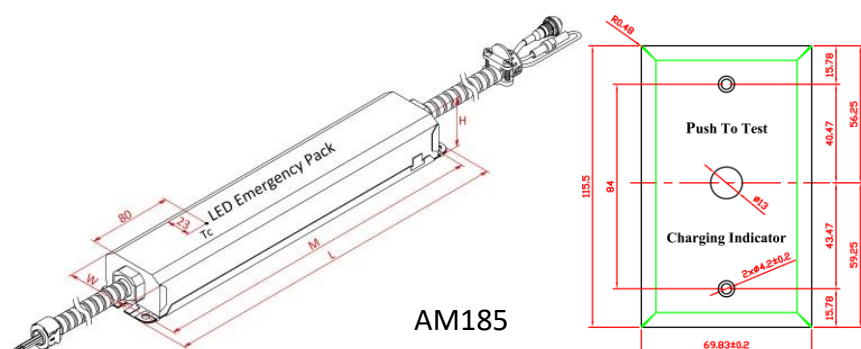
Wire Diagram



Maximum Wiring Distance (at full load) is 18AWG/18Feet

Lead Length	Inch	Cm
White	30.7	78
Yellow/Black	30.7	78
White/Red	30.7	78
White/Blue	30.7	78
Red	30.7	78
Blue	30.7	78
Battery Connector	33.07	84
Test Switch	25	63.5
LED Indicator	6	15.24

Enclosure



Enclosure	Inch	Cm
Length(L)	13.3	33.8
Width(W)	2.44	6.2
Height(H)	1.49	3.8
Mounting(M)	12.68	32.2



Input Specifications

Parameter	Min.	Typ.	Max.	Notes
Input Voltage	312V	347/480V	528V	
Input Current	-	-	0.13A	@347Vac input with full load
Input Frequency	47Hz	60Hz	63Hz	
Leakage Current	-	-	0.7mA	@480Vac input
Turn On Time	-	-	1.0s	@347Vac input at full load
Hold Up Time	-	-	0.1s	@Nominal input and full load
Efficiency	79%	80%	81%	@55Vdc output at full load
Standby Power	-	-	11W	

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Voltage	15V	-	55V	
Output Current	454mA	-	1666mA	@55Vdc-@15Vdc
Battery Charge Current		450mA		LiFePO4, 9.6V, 6600mAh
Battery Voltage		9.6V		
Battery Charge Time			24Hrs	
Emergency Operation	90min			
No-Load Output Voltage	55V	58V	60V	
Rated Current	454mA	-	1666mA	
Rated Power	-	25W	-	
Output Current Ripple	-	±10%	-	

General Specifications

Parameter	Min.	Typ.	Max.	Notes
MTBF	-	100,000 Hours	-	@25°C ambient temperature
Lifespan Time	75,000 Hours	-	-	In the range of specification required by normal use of the power supply at ambient temperature 55°C
Cold Start	-	-	1.0s	@0°C



Protection

Parameter	Description
Over Voltage	Output current decay mode, recovers automatically after fault condition is removed.
Short Circuit	Hiccup mode, recovers automatically after fault condition is removed.
Over Temperature	Shut down o/p voltage, re-power on to recover.

Environmental Specifications

Parameter	Min.	Typ.	Max.	Notes
Operation Temperature	0°C	-	55°C	
Storage Temperature	-20°C	-	55°C	
Humidity	10%	-	90%	
T-Case Temperature	-	-	70°C	

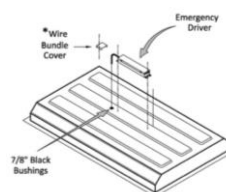
High Temperature Durability	Switch ON/OFF Test
Power storage environment at 80°C 24hours, will not damage the electrical, mechanical properties and also not cause other adverse reactions.	Power at ambient temperature 25°C 1s/on, 1s/off, last up to 10,000 cycles, will not damage the electrical ,mechanical properties and also not cause other adverse reactions.

Safety and EMC Compliance

Safety Standards	Withstand Voltage	Isolation Resistance	EMC Standards	
UL 924 CSA C22.2 No. 141-15	I/P-O/P: 2.0K Vac I/P-FG: 2.0K Vac O/P-FG: 0.5K Vac	I/P-O/P: I/P-FG: O/P-FG: 100Mohm/500VDC	EMI	EMS
			FCC Part 15 class A	FCC Part 15 class A

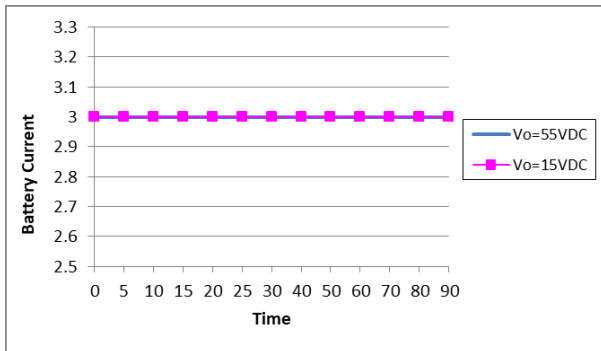
Note

- The product is able to working with AC driver @5A maximum current.
- The emergency backup driver shall be installed inside an electrical enclosure. If the application requires the emergency pack to be mounted on top of the luminaire please use Model which provides a metal flexible conduit instead of bare wires.

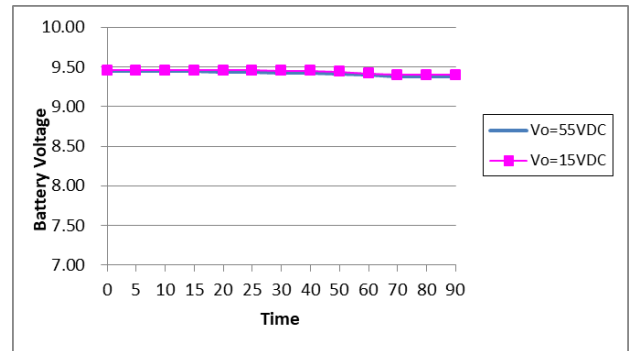




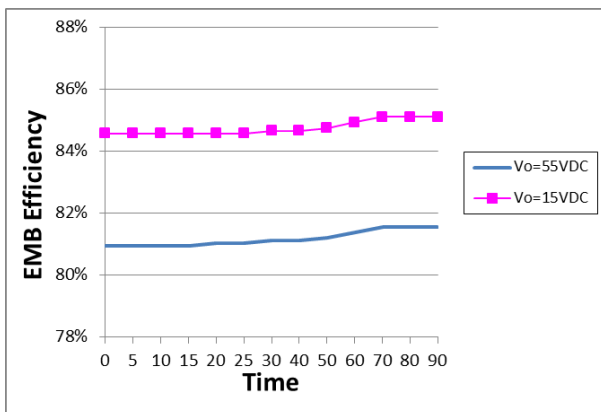
Battery Current V.S. Time



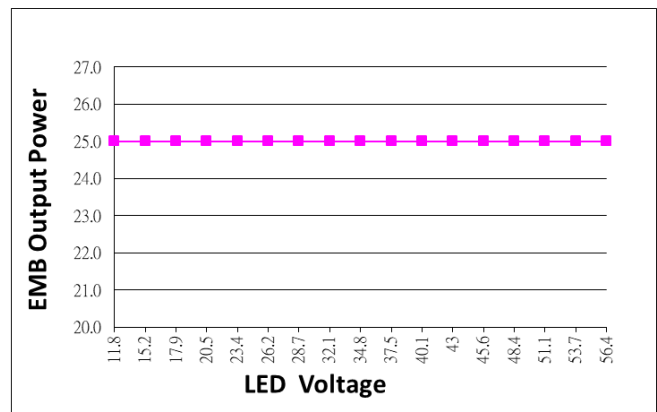
Battery Voltage V.S. Time



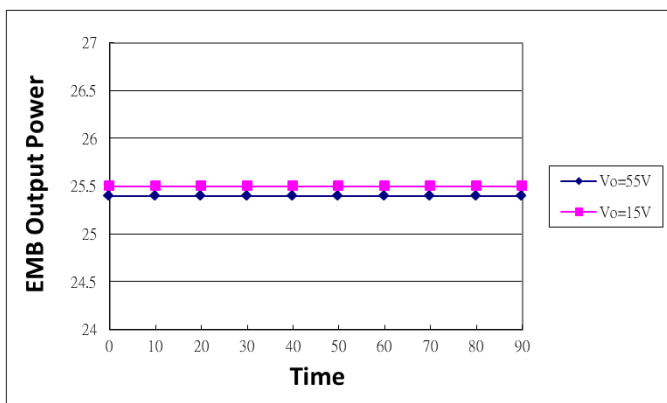
EMB Efficiency V.S. Time



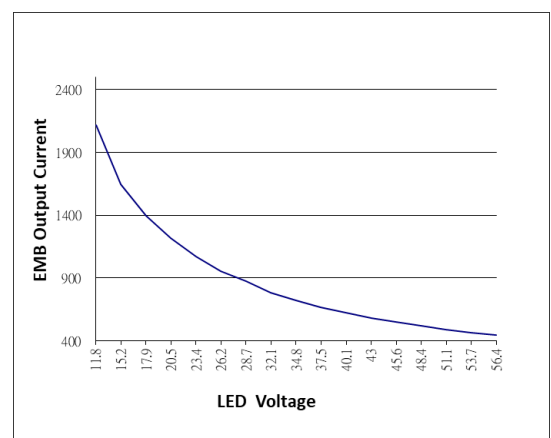
EMB Output Power V.S. LED Voltage



EMB Output Power V.S. Time



EMB Output Current V.S. LED Voltage



Data is based upon tests performed by Antron Electronics in a controlled environment and representative performance. Actual performance can vary depending on operating conditions. Specifications are subject to change without notice. All specifications are nominal unless otherwise noted.