



LED Emergency Pack

20 watts, with Flexible Conduit



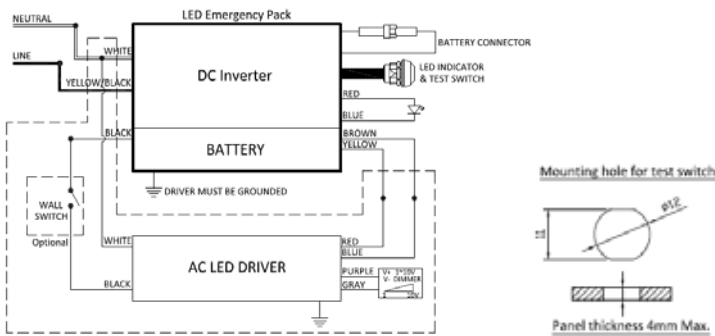
Model Name	FD-EP-20-1555-9.6-120-347V-FC
Output Model	Constant Current
Input Voltage	120-347 Vac
Input Frequency	50/60 Hz
Dimming	N/A
Surge Rating	3KV
Warranty	5 Years TC $\leq 60^{\circ}\text{C}$ 3 Years TC $\leq 70^{\circ}\text{C}$ 3 Years for the battery

Product Specification



Output Power (W)	Output Voltage (V)	Output Current (mA)	Operating Duration Time	Battery Voltage (V)	Battery Charge Current (mA)	Battery Charge Time	Input Power	Input Current (mA)
Max. 20	15-55	363	Min. 90min	9.6	Max. 210	Max. 48Hrs	Max. 5	Max. 70

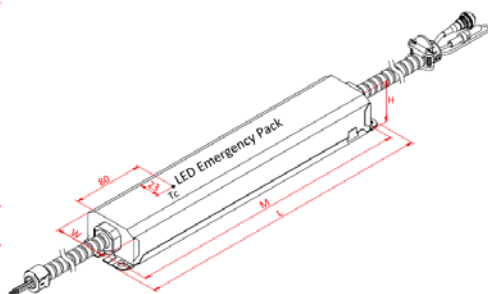
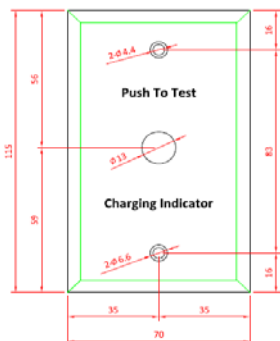
Wire Diagram



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

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

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	108V	120/347V	381V	
Input Current	-	-	0.07A	@120Vac input with full load
Input Frequency	47Hz	60Hz	63Hz	
Leakage Current	-	-	0.7mA	@347Vac input
Turn On Time	-	-	1.0s	@120Vac input at full load
Hold Up Time	-	-	0.1s	@Nominal input and full load
Efficiency	70%	73%	76%	@55Vdc output at full load
Standby Power	-	-	5W	

Output Specifications

Parameter	Min.	Typ.	Max.	Notes
Output Voltage	15V	-	55V	
Output Current	-	363mA	-	
Battery Charge Current		210mA		LiFePO4, 9.6V, 6600mAh
Battery Voltage		9.6V		
Battery Charge Time			48Hrs	
Emergency Operation	90min			
No-Load Output Voltage	60V	65V	70V	
Rated Current	344mA	363mA	381mA	
Rated Power	-	20W	-	
Line Regulation	-	-	±5%	
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 decade 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	

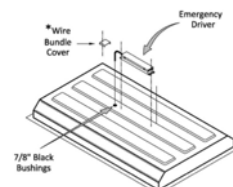
High Temperature Durability	Switch ON/OFF Test
Power storage environment at 80°C 24hours, will not damage the electrical, mechanical properties and also not cause other adverse reactions.	Power at ambient temperature 25°C 1s/on, 1s/off, last up to 10,000 cycles, will not damage the electrical ,mechanical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

Safety and EMC Compliance

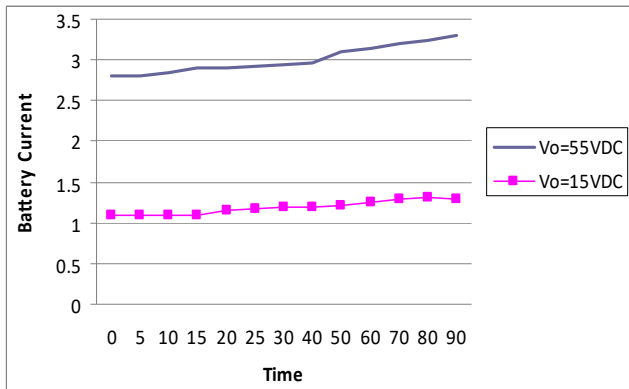
Safety Standards	Withstand Voltage	Isolation Resistance	EMC Standards	
			EMI	EMS
UL 924 CSA C22.2 No. 141-15	I/P-O/P: 2.0K Vac I/P-FG: 2.0K Vac O/P-FG: 0.5K Vac	I/P-O/P: I/P-FG: O/P-FG: 100Mohm/500VDC	FCC Part 15 class A UL924 CSA C22.2 No. 141-15	FCC Part 15 class A UL 924

Note

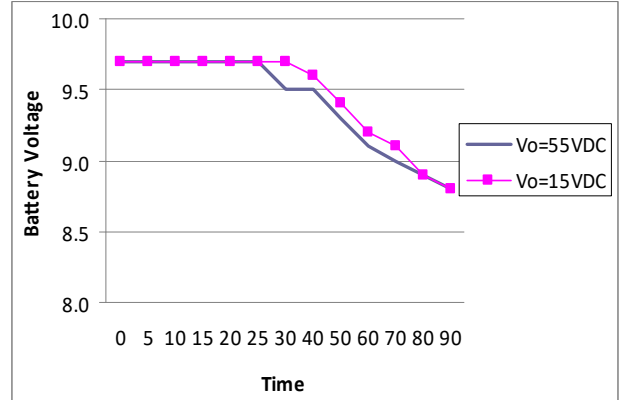
- The product is able to working with AC driver @8A maximum current.
- The emergency backup driver shall be installed inside an electrical enclosure. If the application requires the emergency pack to be mounted on top of the luminaire please use Model which provides a metal flexible conduit instead of bare wires.



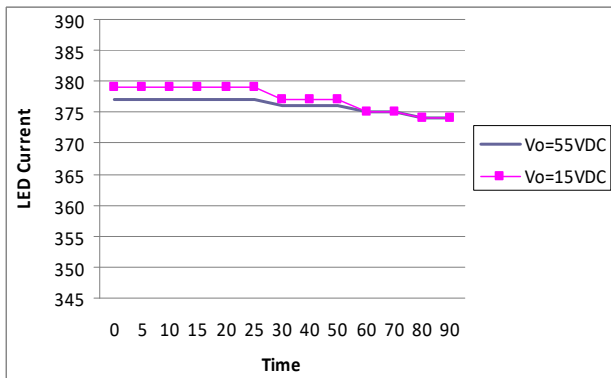
Battery Current V.S. Time



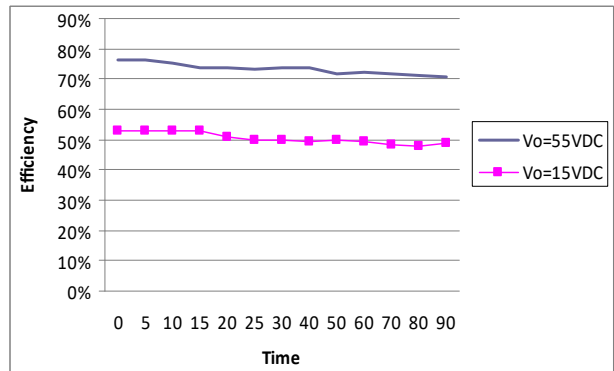
Battery Voltage V.S. Time



LED Current V.S. Time



LED Efficiency V.S. Time



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.