



Type(s)
Project
Date
Notes

GENERAL INFORMATION

The F-Drive RX Power Supply supports the F-Drive RX LED driver solution from ETC. The F-Drive RX provides a modular, centralized approach for controlling a wide variety of LED luminaires. By maintaining remote, easy access to driver cards and power supplies, LED based systems can be easily installed and serviced, while ensuring critical components are readily accessible to support staff. F-Drive RX Power Supplies come preconfigured, reducing installation costs and system complexity to get installations online faster, and with fewer headaches.

APPLICATIONS

- Retail and hospitality spaces
- Entertainment spaces
- Themed environments
- Houses of worship
- Conference centers
- Schools
- Cruise ships

FEATURES

- Provides 56 VDC to F-Drive RX rack-mount enclosure
- Up to 2800 W of output at 56 VDC
- Compact size for standard 19-inch equipment rack, 1U height
- Front-panel LED power indicator
- Rear On/Off switch
- 100–240 VAC input (auto switching)
- Multiple power cord options

ORDERING INFORMATION

MODEL	DESCRIPTION
FD-RX-RPSU-56/2800	F-Drive RX Power Supply 1U 56 VDC 2800 W
FD-RX-RPSU-56/1800	F-Drive RX Power Supply 1U 56 VDC 1800 W
Power cord connection type chosen below, one cord required for each FD-RPS	
FD-RPS-IC-E15	14/3 NEMA 5-15P to Locking C19 IEC Connector
FD-RPS-IC-E20	12/3 NEMA 5-20P to Locking C19 IEC Connector
FD-RPS-IC-S16	14/3 (2.5 mm ²) Euro Schuko Plug to Locking C19 IEC Connector
FD-RPS-IC-C16	14/3 (2.5 mm ²) Euro Ceeform Plug to Locking C19 IEC Connector
FD-RPS-IC-BE	14/3 (2.5 mm ²) Bare Ends (Euro) to Locking C19 IEC Connector

Note: All power input cords are 1.8 m (6 ft) long



SPECIFICATION

Electrical

Voltage Input	FD-RX-RPSU-56/2800: 100–240 VAC FD-RX-RPSU-56/1800: 100–240 VAC
Voltage Output	56 VDC
Inrush	50 A Max
Rated Power Output	FD-RX-RPSU-56/2800 @ 100–109 VAC: 1300 W FD-RX-RPSU-56/2800 @ 110–199 VAC: 1500 W FD-RX-RPSU-56/2800 @ 200–240 VAC: 2800 W
	FD-RX-RPSU-56/1800 @ 100–109 VAC: 1300 W FD-RX-RPSU-56/1800 @ 110–199 VAC: 1500 W FD-RX-RPSU-56/1800 @ 200–240 VAC: 1800 W
Typical AC current draw	FD-RX-RPSU-56/2800 @ 115 VAC: 16 A FD-RX-RPSU-56/2800 @ 230 VAC: 14 A
	FD-RX-RPSU-56/1800 @ 115 VAC: 16 A FD-RX-RPSU-56/1800 @ 230 VAC: 10 A
Power factor	> 0.95
Necessary Cables	<ul style="list-style-type: none"> • C19 IEC AC Power Cable must be ordered separately, see Ordering Information on page 1 for details. • 2.4 m (8 ft) DC power cable included with F-Drive RX, can be cut to length and attached to included DC terminal power connector

Thermal

Ambient operating temp	0°C–40°C (32°F–104°F)
Humidity	20%–95% non-condensing
Fans	Yes
BTU/hour	FD-RX-RPSU-56/2800 @ 100–109 VAC: 233 BTU/hr FD-RX-RPSU-56/2800 @ 110–199 VAC: 269 BTU/hr FD-RX-RPSU-56/2800 @ 200–240 VAC: 503 BTU/hr
	FD-RX-RPSU-56/1800 @ 100–109 VAC: 233 BTU/hr FD-RX-RPSU-56/1800 @ 110–199 VAC: 269 BTU/hr FD-RX-RPSU-56/1800 @ 200–240 VAC: 323 BTU/hr

Physical

Materials	Enclosure: 1.6 mm (0.063 in) aluminum Front plate: 19 in rack-compatible 3.2 mm (0.125 in) aluminum
Color options	Front plate: Space grey, fine-textured, scratch-resistant powder coat paint
Mounting options	Rack-mount - 1U 19 inch standard rack mounting, removable via two aluminum 'U' handles. F-Drive RX Power Supplies require 1U of space.
IP rating	IP-20 (dry locations only)
Weight	See F-Drive RX Power Supply Dimensions on page 5

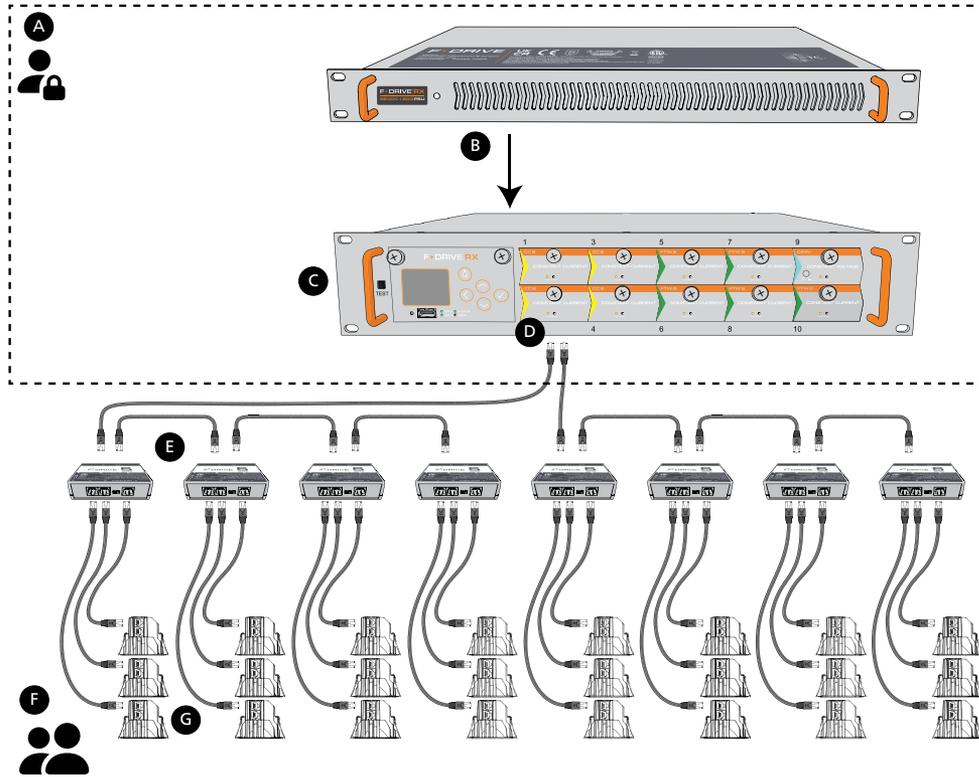
Warranty

Warranty Term	5 years
Website	etconnect.com/warranty

Regulatory and Compliance

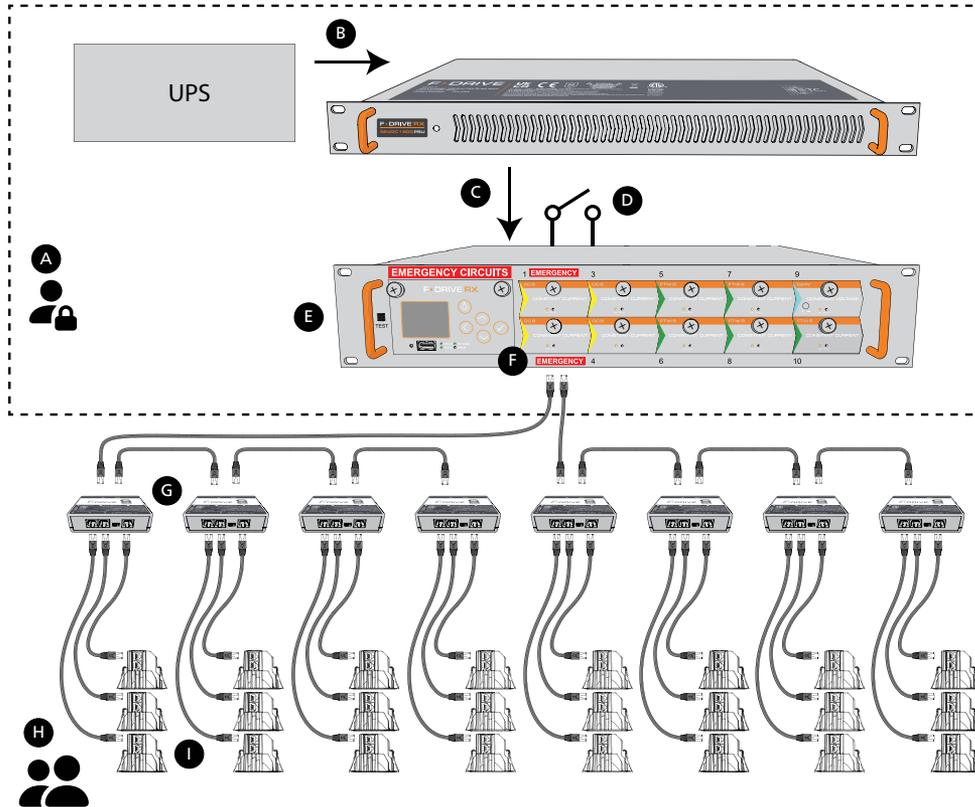
Approved regulatory standards	cETLus Listed to UL 62368-1 and CSA C22.2 No. 62368-1 CE and UKCA Compliant to IEC 62368-1
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F-DRIVE RX NON-EMERGENCY SYSTEM DIAGRAM



	DESCRIPTION	NOTES
A	Serviceable area	
B	56 VDC power from F-Drive RX Power Supply	FD-RPS-56/1800 shown
C	F-Drive RX	FD-RX
D	Output card	This example shows a CC 8 Card installed in slot 2 of the F-Drive RX. F-Drive RX supports 10 output cards. Each constant current output card has up to 8 output channels.
E	Eight S-Box with RJ45 outputs	S-Box is an optional accessory that allows multiple luminaires to be connected on a single output channel. This example shows one FD-SBOX-R per channel.
F	Public space	
G	Luminaires or loads	24 ArcSystem Navis 50 shown, three per output channel (requires FD-SBOX-R)
<p>Note: The illustration is not drawn to scale. Loads are only illustrated connected to one of the ten output cards for clarity.</p>		

F-DRIVE RX EMERGENCY SYSTEM DIAGRAM



	DESCRIPTION	NOTES
A	Serviceable area	
B	Double-conversion uninterruptible power supply (UPS)	UPS should be specified with capacity to power all of the connected loads.
C	56 VDC power from F-Drive RX Power Supply	FD-RPS-56/1800 shown
D	Maintained contact closure	Wet or dry, normally-open or normally-closed
E	F-Drive RX	FD-RX
F	Output card	This example shows a CC 8 Card installed in slot 2 of the F-Drive RX, and labeled with an "EMERGENCY" label on the enclosure near the output card (front and back). F-Drive RX supports 10 output cards. Each constant current output card has up to 8 output channels. The output card can be connected to any directly controlled luminaires (DCLs).
G	Eight S-Box with RJ45 outputs	S-Box is an optional accessory that allows multiple luminaires to be connected on a single output channel. This example shows one FD-SBOX-R per channel.
H	Public space	
I	Luminaires or loads	24 ArcSystem Navis 50 shown, three per output channel (requires FD-SBOX-R).
Note: The illustration is not drawn to scale. Loads are only illustrated connected to one of the ten output cards for clarity.		

PHYSICAL

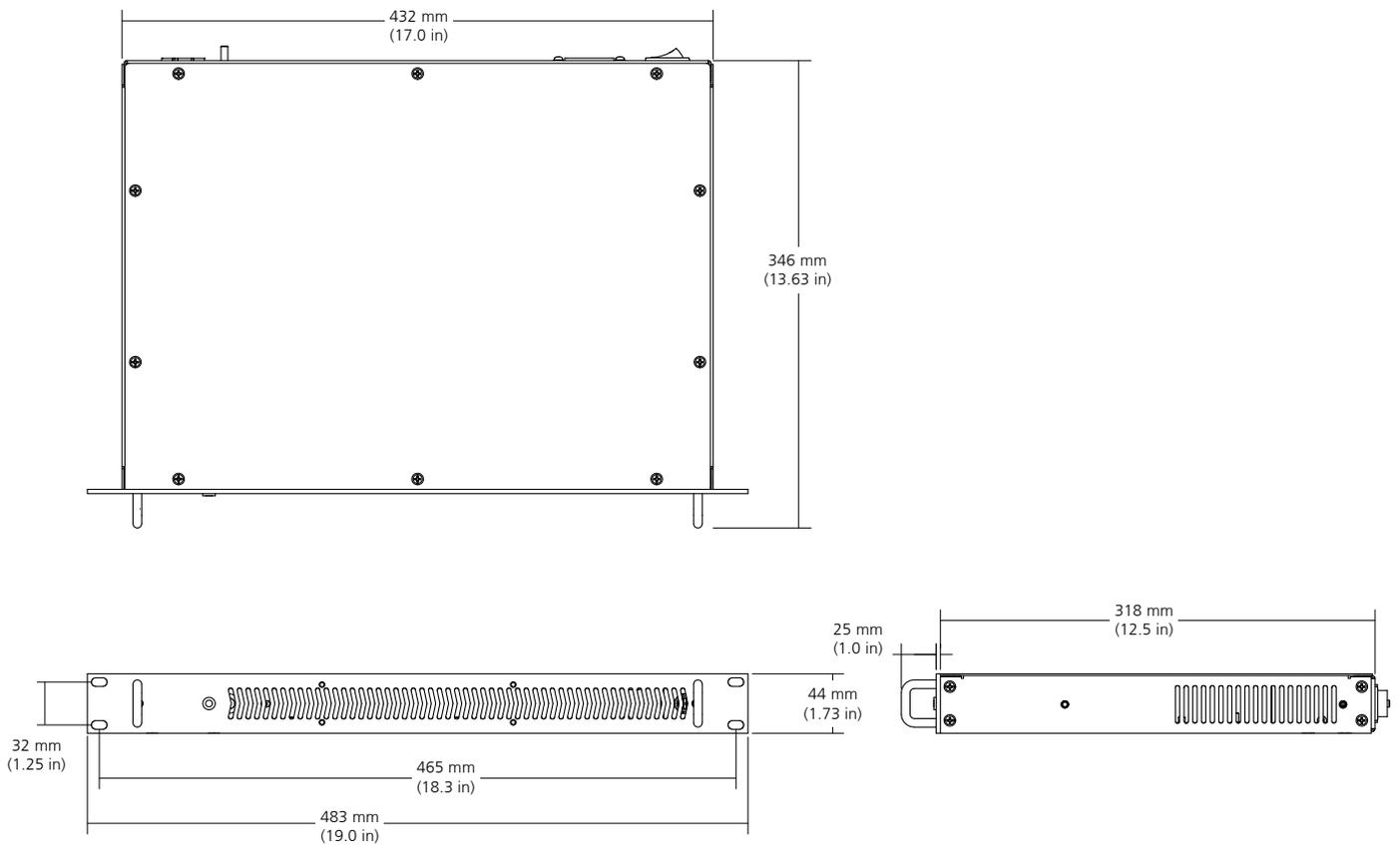
F-Drive RX Power Supply Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	mm	in	mm	in	mm	in
FD-RX-RPSU-56/2800	44	1.73	483	19.00	346	13.63
FD-RX-RPSU-56/1800	44	1.73	483	19.00	346	13.63

F-Drive RX Power Supply Weights

MODEL	WEIGHT		SHIPPING WEIGHT	
	kg	lb	kg	lb
FD-RX-RPSU-56/2800	4.08	9.01	5.00	11.02
FD-RX-RPSU-56/1800	4.08	9.01	5.00	11.02

F-DRIVE RX POWER SUPPLY



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