

Hot Swappable Redundant Supplies

EFR SERIES

300-900 Watts



EFR-1302 Model shown

CE Marked LVD

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Active PFC

•

Single Wire Current Share

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N+1 Redundant

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Internal Or-ing Diodes

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Power Fault Alarm Signals

•

Front Panel LED's

Specification - EFRP-2303

Input Voltage	• 100-240 V AC
Input Frequency	• 47 to 63 Hz
Inrush Current	• 7/3.5 A @ 115/230 V AC
Efficiency	• >62% @ full load & nominal AC input voltage
Total Output Power	• 300 W
Hold-up Time	• ≥20 ms @ 100% load & nominal AC voltage
Load Regulation	• See Table
Line Regulation	• See Table
Cross Regulation	• See Table
Ripple & Noise	• See Table
Overvoltage Protection	• Set @ 110-130% of 3.3 V, 5 V & +12 V outputs
Overcurrent Protection	• Set @ 110-130% of nominal current
Power Good Signal	• TTL compatible, signal goes high after turn on @ +5 V rail will reach 4.75 V 100-500 ms, signal goes low at least 1 ms before the +5 V loss of regulation
Single Wire Current Share	• Standard on +3.3 V, +5 V & +12 V outputs
Remote Sense	• Standard on +3.3 V & +5 V outputs
DC OK & Fan Status	• Front panel LED
Operating Temperature	• 0 °C to +50 °C
Operating Humidity	• 20-90% non-condensing
Integral Fan	• 4 x 14 CFM
EMC	• Conducted FCC class B, CISPR 22 (EN55022) class B, VCCI class 2
Safety requirements	• UL, cUL, TÜV, EN60950
MTBF	• >100,000 hrs @ 75% load & 25 °C ambient temperature

Output Voltage & Current Ratings - EFRP-2303							
Output Voltage	Output Current		Regulation			Ripple & Noise	Model Number
	Minimum	Maximum	Line	Load	Cross		
+5.0 V	0.1 A	30.0 A	±1.0%	±5.0%	±5.0%	±1.0%	EFRP-2303
+3.3 V	0.1 A	28.0 A	±1.5%	±5.0%	±5.0%	±1.5%	
+12.0 V	0.1 A	15.0 A	±1.0%	±5.0%	±5.0%	±1.0%	
-5.0 V	0.1 A	0.3 A	±1.0%	±10.0%	±10.0%	±1.0%	
-12.0 V	0.1 A	0.8 A	±1.0%	±10.0%	±10.0%	±1.0%	
5VSB	0.1 A	2.0 A	±1.0%	±5.0%	±5.0%	±1.0%	

Mechanical Details - EFRP-2303

The diagram illustrates the mechanical details of the EFRP-2303 unit, showing three views: front, side, and rear.

Front View (Top): Shows the front panel with a central display area and two large circular components (likely fans or sensors) on the left. Dimensions include a total width of 255.00 and 258.80, and a total height of 100.00. The distance between the two large circular components is 84.00, and the distance between the two smaller circular components is 62.00.

Side View (Middle): Shows the side profile of the unit. Dimensions include a total width of 255.00 and 258.80, and a total height of 100.00. The distance between the two large circular components is 84.00, and the distance between the two smaller circular components is 62.00. The distance between the two large circular components is 84.00, and the distance between the two smaller circular components is 62.00.

Rear View (Bottom): Shows the rear panel with a central display area and two large circular components (likely fans or sensors) on the left. Dimensions include a total width of 255.00 and 258.80, and a total height of 100.00. The distance between the two large circular components is 84.00, and the distance between the two smaller circular components is 62.00.

Top View (Right): Shows the top of the unit. Dimensions include a total width of 105.40, a total height of 112.48, and a distance between the two large circular components of 84.00. The distance between the two smaller circular components is 62.00. The distance between the two large circular components is 84.00, and the distance between the two smaller circular components is 62.00.

Bottom View (Left): Shows the bottom of the unit. Dimensions include a total width of 155.00, a total height of 35.00, and a distance between the two large circular components of 23.0. The distance between the two smaller circular components is 26.0. The distance between the two large circular components is 23.0, and the distance between the two smaller circular components is 26.0.

N.B. Other configurations available, contact sales office for details.

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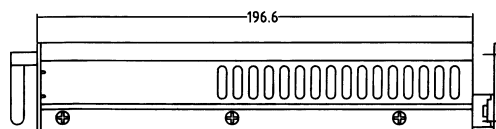
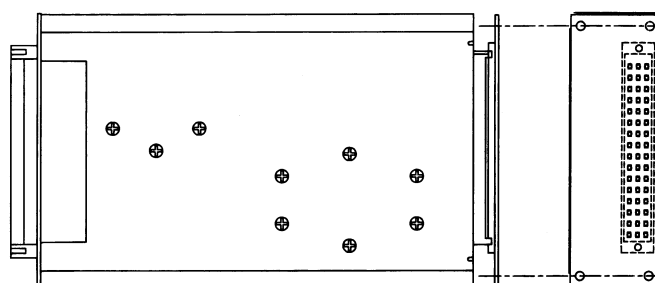
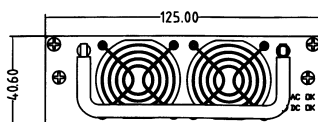
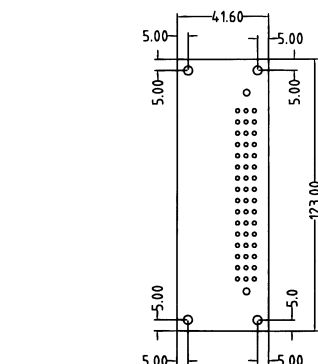
Mechanical Details - EFR-1302

See photograph on opposite page.

Output Voltage	+5.0 V	+3.3 V	+12.0 V	-5.0 V	-12.0 V	5 VSB
Current Ratings	30.0 A	20.0 A	10.0 A	0.5 A	1.0 A	1.5 A

See photograph on opposite page.

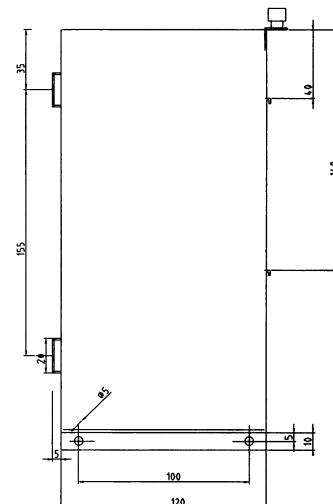
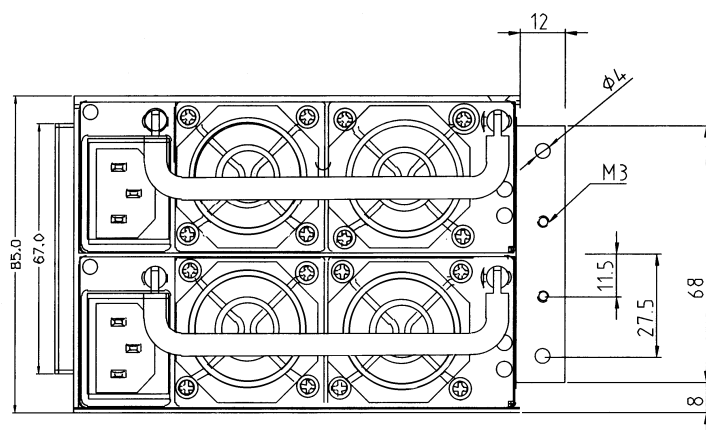
Output Voltage	+5.0 V	+3.3 V	+12.0 V	-5.0 V	-12.0 V	5 VSB
Current Ratings	30.0 A	20.0 A	10.0 A	0.5 A	1.0 A	1.5 A



300 W + 300 W Dual Redundant System - EFR-2301



Output Voltage	+5.0 V	+3.3 V	+12.0 V	-5.0 V	-12.0 V	5 VSB
Current Ratings	30.0 A	20.0 A	10.0 A	0.5 A	1.0 A	1.5 A

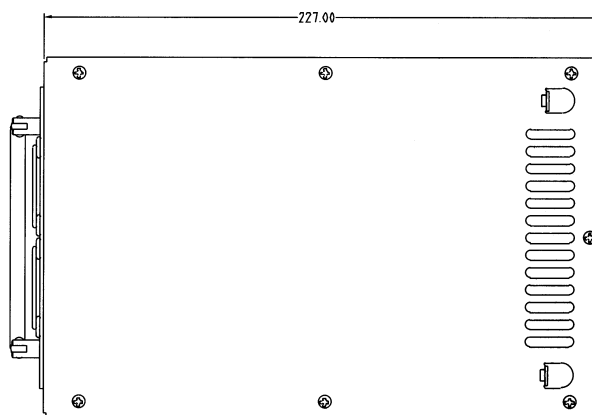
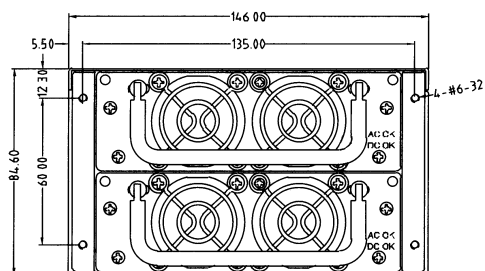


N.B. Other configurations available, contact sales office for details.

300 W + 300 W Dual Redundant System - EFR-2302S



Output Voltage	+5.0 V	+3.3 V	+12.0 V	-5.0 V	-12.0 V	5 VSB
Current Ratings	30.0 A	20.0 A	10.0 A	0.5 A	1.0 A	1.5 A



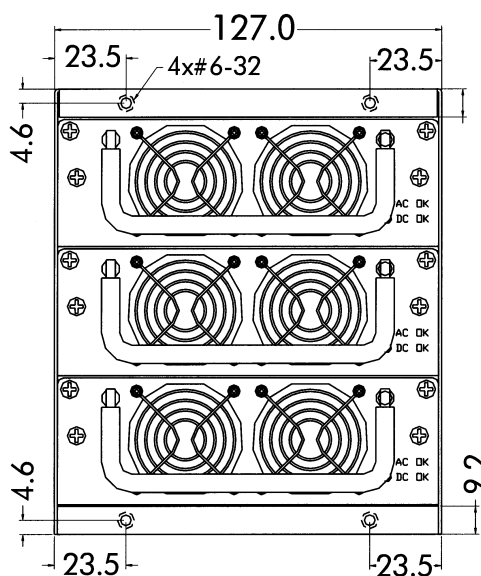
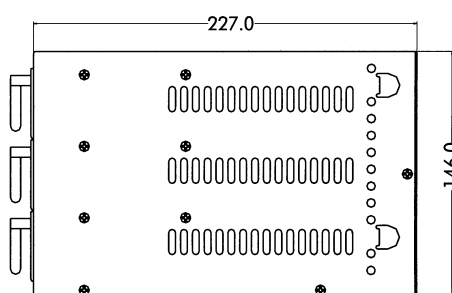
N.B. Other configurations available, contact sales office for details.

Tel: +44 (0)118 984 5515 **UK**

Tel: +49 (0)700 9977 1000 **D**

600 W + 300 W Redundant System - EFR-3302

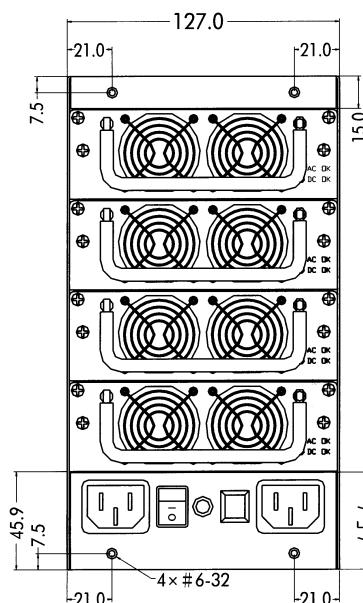
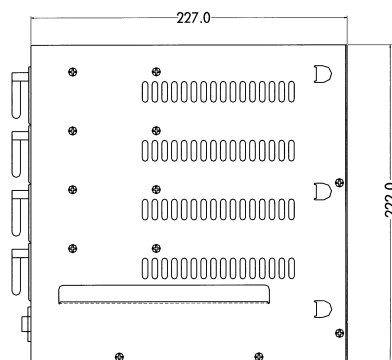
Output Voltage	+5.0 V	+3.3 V	+12.0 V	-5.0 V	-12.0 V	5 VSB
Current Ratings	60.0 A	40.0 A	22.0 A	1.0 A	2.0 A	1.5 A



N.B. Other configurations available, contact sales office for details.

900 W + 300 W Redundant System

Output Voltage	+5.0 V	+3.3 V	+12.0 V	-5.0 V	-12.0 V	5 VSB
Current Ratings	90.0 A	60.0 A	33.0 A	1.0 A	3.0 A	1.5 A



N.B. Other configurations available, contact sales office for details.