

Modular Power System

HR3 SERIES

1.4-5.1 kWatts



CE Marked LVD

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Hot Plug 1.4/1.7 kW Modules

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Power Factor Corrected

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Comprehensive Alarms

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-40 °C to +65 °C Operation

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90% Efficient

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54/48 V DC Versions

Specification

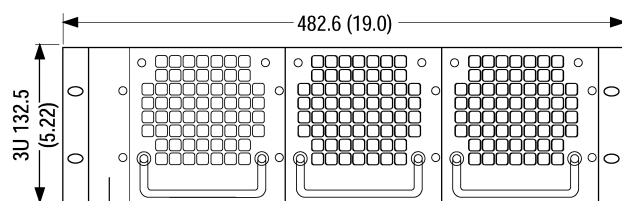
Input Voltage	Single Phase 176-264 V AC/ three phase user selectable 305-457 V AC (3 modules only)
Input Frequency	50/60 Hz
Input Current	6.75 A per module for 1400 W modules 8.00 A per module for 1700 W modules
Power Factor	Typically 0.99 (to EN61000-3-2)
Output Voltage	Factory set to 54 V DC or 48 V DC
Output Adjustment	46 to 58 V DC
Output Current	25 A per rectifier for 1400 W modules 30 A per rectifier for 1700 W modules (See Operating Temperatures)
Output Noise	- Maximum 25 mV rms (10 Hz to 100 MHz) 29 dBrc (weighted CCITT) 2 mV rms (C message weighted) 50 dBA typical (acoustic @ 1 m)
Overvoltage	59.5 to 59.9 V DC
Operating Temperature	-40 °C to +45 °C @ 1700 W per module -40 °C to +65 °C @ 1400 W per module
Standard Signals	- Postmate enable, marginate up/down, voltage trim, output healthy - relay & front panel LED, current monitor. - DIN rail mount temperature compensation module available - See TCM Series
LED Indication	Output healthy, overvoltage, overtemperature, fan fail, current share, float boost selected, input healthy, current limit & thermal control
Approvals	EN60950 CE Marked LVD, UL1950 CSA NTRL approved, file number LR58666
EMC	Emissions complaint with EN50081-1(192), EN55022 level b, immunity complaint to EN50082, FCC 15 J-B
Dimensions	See next page

Output Voltage & Current Ratings

Output Voltage	Output Current	Modules Used	No. of Modules	No. Of Blank Panels	Model Number
54 V DC	25 A	HPR1K4ES54-HB	1	2	HR3-12-54-A14
	50 A		2	1	HR3-21-54-A14
	75 A		3	0	HR3-30-54-A14
	30 A	HPR1K7ES54-HB	1	2	HR3-12-54-A17
	60 A		2	1	HR3-21-54-A17
	90 A		3	0	HR3-30-54-A17
48 V DC	25 A	HPR1K4ES48-HB	1	2	HR3-12-48-A14
	50 A		2	1	HR3-21-48-A14
	75 A		3	0	HR3-30-48-A14
	30 A	HPR1K7ES48-HB	1	2	HR3-12-48-A17
	60 A		2	1	HR3-21-48-A17
	90 A		3	0	HR3-30-48-A17

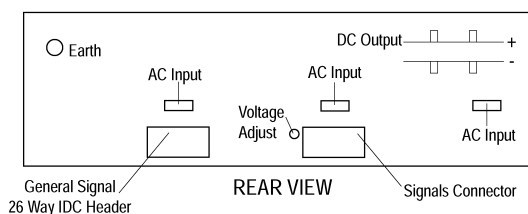
NOTE:

1. Configured from stock.

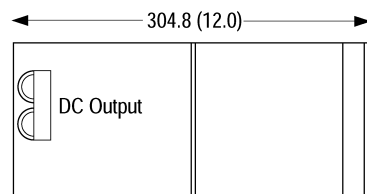
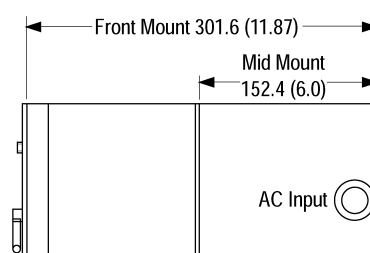
Mechanical Details

FRONT VIEW

Option card - Consult Sales Office



REAR VIEW



LEFT SIDE

Size : W x H x D = 4.8 x 5.0 x 10.5 in (122 x 127 x 268 mm)

Weight : 7.7 lb (3.5 Kg)

Cooling : Internal variable speed fan

PIN CONNECTIONS			
Pin	Function	Pin	Function
1	Fan Fail	14	Remote Shutdown (Input)
2	Standby	15	Negative Sense
3	Overtemperature	16	Current Monitor
4	Thermal Control	17	Positive Sense
5	Overvoltage	18	Auxiliary Power Supply, 12 V
6	Current Limit	19	Postmate Enable
7	Output Healthy	20	Program Down (Input)
8	Input Healthy	21	Boost (Input)
9	Output Current >15%	22	Boost Active
10	Signals 0 V Common	23	Current Limit Program (Input)
11	Rectifier failed (Relay Contacts)	24	Not Used
12	Current Share	25	Not Used
13	Voltage Trim (Input)	26	Not Used

NOTES:

- Current monitor signal indicates sum of all rectifiers.
- Pins 1-8 are active low, open collector opto coupler signals indicating that one or more rectifiers is in the indicated state.

