

Modular Power System

HPR6 SERIES

1.2-7.2 kWatts



CE Marked LVD

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Hot Plug 1.2 kW Modules

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Power Factor Corrected

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Comprehensive Alarms

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-40 °C to +55 °C Operation

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90% Efficient

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54/48 V DC Versions

Specification

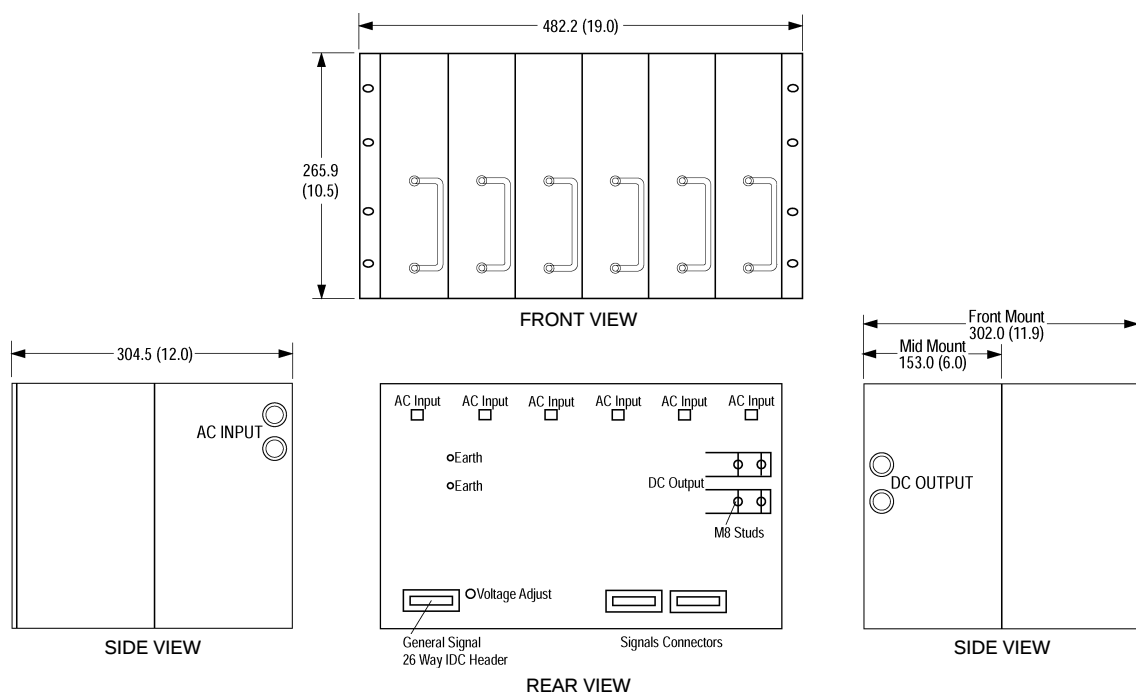
Input Voltage	• Single Phase 176-264 V AC/ three phase user selectable 305-457 V AC
Input Frequency	• 50/60 Hz
Input Current	• 6 A per module (nominal)
Power Factor	• Typically 0.99 (to EN61000-3-2)
Output Voltage	• Factory set to 54 V DC or 48 V DC
Output Adjustment	• From 42 V DC to 58 V DC
Output Current	• 22.0 A per rectifier @ 54 V up to 55 °C with 1 m/s airflow 13.5 A per rectifier @ 54 V DC up to 45 °C convection cooled
Output Noise	• Maximum 25 mV rms (10 Hz to 100 MHz) 32 dBrnc (weighted CCITT) 2 mV rms (C message weighted)
Overvoltage	• 59.5 to 59.9 V DC
Operating Temperature	• -40 °C to +55 °C @ 1 m/s airflow -40 °C to +45 °C convection cooled (derate as above)
Standard Signals ⁽¹⁾	• Postmate enable, marginate down, remote voltage trim, output healthy - relay & front panel LED, current monitor. ⁽¹⁾ Dependant on model DIN rail mount temperature compensation module available - See TCM Series
LED Indication	• Output healthy
Approvals	• EN60950 CE Marked LVD, UL1950 CSA NTRL approved - file number LR58666, C22.2 No. 950, CSA NTRL/C approved - file no. LR58666
EMC	• Emissions compliant with EN50081-1(92), EN55022 level B, immunity complaint to EN50082, FCC 15 J-B
Dimensions	• See next page

Output Voltage & Current Ratings

Output Voltage	Output Current ⁽¹⁾	Modules Used	No. of Modules	No. Of Blank Panels	Model Number ⁽³⁾
54 V DC	22 A	TRC1K2ES54-HB or TRC1K2ES54-HA	1	5	HPR6-15-54-A or B
	44 A		2	4	HPR6-24-54-A or B
	66 A		3	3	HPR6-33-54-A or B
	88 A		4	2	HPR6-42-54-A or B
	110 A		5	1	HPR6-51-54-A or B
	132 A		6	0	HPR6-60-54-A or B
48 V DC	22 A	TRC1K2ES48-HB or TRC1K2ES48-HA	1	5	HPR6-15-48-A or B
	44 A		2	4	HPR6-24-48-A or B
	66 A		3	3	HPR6-33-48-A or B
	88 A		4	2	HPR6-42-48-A or B
	110 A		5	1	HPR6-51-48-A or B
	132 A		6	0	HPR6-60-48-A or B

NOTES:

- Output current @ 1 m/s airflow.
- HB versions have enhanced signals, HA versions have basic signals.
- Configured from stock.

Mechanical Details**SIGNAL PIN CONNECTIONS**

Pin	Function	Pin	Function
1	Not Used	14	Remote Shutdown (+ve)
2	≥1 Rectifiers in Standby	15	Negative Sense
3	≥1 Rectifiers in Overtemperature	16	Current Monitor (summed 0.01 V/A)
4	≥1 Rectifiers in Thermal Control	17	Positive Sense
5	≥1 Rectifiers in Overvoltage	18	Auxiliary Power Supply, +10 V
6	≥1 Rectifiers in Current Limit	19	Postmate Enable (to -ve sense to run)
7	≥1 Rectifiers in Output Healthy	20	Program Down (Battery Test)
8	≥1 Rectifiers in Input Healthy	21	Set Boost
9	≥1 Rectifiers in Output Current >15%	22	≥1 Rectifiers in Boost (Consult Office)
10	Common Return	23	Current Limit Program
11	≥1 Rectifiers failed (Relay Contacts)	24	Not Used
12	Current Share	25	Not Used
13	Voltage Trim	26	Not Used

Front panel indication.
(HB version)