CoolMax SRX-R Charge Module

2U Solar MPPT

The **CoolMax SRX-R** features over thirty years of AERL's MPPT and Battery Charging experience, offering a superior tracking algorithm, an ultra-low loss, high efficiency thermal design, backed by our Australian factory warranty and local support.

With record-breaking conversion efficiencies, intelligent thermal management, and state of the art MPPT tracking, the SRX is a key component of any high-quality DC-Coupled power system.

Product Highlights

- 2U Rack Format for Ease of Install and Servicing
- Scalable for Large Storage Applications
- Remote Module Control & Monitoring
- Utility Grade - for Long Term Reliability
- PV Array Oversizing Support (+50%)
- Reverse Polarity and Current Protection
- Built-In Overload and Thermal Protection
- On-Board Ground Fault Detection

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General Specifications	
Parameter	Typical
Weight	4 kg
Dimensions (L x W x H)	432 x 192 x 78 mm
Enclosure Type	Indoor Type 1 / IP20
Mounting Method	2U Rack
Input / Output Power Connectors	Backplane Connector

Characteristics	SRX-R 600/30-120
Nominal Battery Voltage / Vdc Range	**120 V** / 90 – 170
Max Charge Current	30 A
Nominal Charge Power	**4320W @ 120 V**
Max PV Input Voltage (VOC)	600 V
Max PV Input Current (IMP)	14 A
Max PV Short Circuit Current (ISC)	20 A
Startup Voltage	60 V
MPP Voltage Range	215 – 500 V
Overload Behavior	Power Limitation
PV Reverse Polarity Protection	Yes
Earth Leakage Current Detection	Yes
Overvoltage Category	DC II
Overvoltage Protection	DC Type II
Safety Protection Class	I
Pollution Degree (Int & Ext)	II
Max Conversion Efficiency	96%
Ambient Operating Temperate Range (Full Rating up to 80% Ambient ° C)	-20 to +50 °C
Storage Temperature	-30 to +70 °C
Self-Consumption @ Idle	3.5 W
Allowable Relative Humidity	4 – 95% (non-Condensing)
Cooling Method	Active (User Serviceable)
Display	Indication LED Strip
Required Cabinet Air Exchange Rate (Intake @ 40°C)	25 m^3/hour
Communications	RS485 / CAN Bus / USB
Certifications	IEC62109-1:2010 EN61000.6.3:2012 EN61000.6.4:2012

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