



CoolMax SRX-R Charge Controller

Maximum Power Point Tracker (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 (+200%)



Reverse Polarity and
Current Protection



Built-In Overload
and Thermal Protection



On-Board Ground
Fault Detection

Australian Energy Research Laboratories

📍 2/75 Bluestone Circuit, Seventeen Mile Rocks, QLD
✉ sales@aerl.com.au
🌐 www.aerl.com.au



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General Specifications	
Parameter	Typical
Weight	6.2 kg
Dimensions (H x W x D)	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 600/60-48
Nominal Battery Voltage / Vdc Range	48 V / 40 – 60
Max Charge Current	60 A
Nominal Charge Power	3456W @ 48 V
Max PV Input Power	Nominal Charge Power x 2.0
Max PV Input Voltage (VOC)	600 V
Max PV Input Current (IMP)	18 A
Max PV Short Circuit Current (ISC)	25 A
Startup Voltage	60 V
MPP Voltage Range	170 – 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 Temperature 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)
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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