## Øaerl

# CoolMax SRX Charge Controller

Maximum Power Point Tracking (MPPT)

### Why choose the CoolMax?

- High Input Voltage for Ease of Install
- On-Board Ground Fault Detection
- PV Array Oversizing Support (+33%)
- Superior Peak Power Efficiency Over 98%
- Reverse Polarity and Current Protection
- Built-In Overload and Thermal Protection
- Master/Slave Configuration Options
- Compatible with most Battery Systems
- Designed for Long Term Reliability
- Australian Made

The **CoolMax SRX** features over thirty years of AERL's MPPT 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 remote power system.

#### **Optional Extras**

- BatterySense
  - a. Remote Voltage and Battery Temperature Sensing for the CoolMax SRX.

#### www.aerl.com.au

General Specifications	
Parameter	Typical
Weight	5 kg
Dimensions (L x W x H)	432 x 192 x 89 mm
Enclosure Type	Indoor Type 1 / IP20
Mounting Method	Wall Mount Bracket
Input / Output Power Connectors	Screw Terminals (8 mm <sup>2</sup> -> 42mm <sup>2</sup> )

Characteristics	SRX 600/30-120
Nominal Battery Voltage / Vdc Range	<b>120 V</b> / 90 -170
Max Charge Current	30 A
Nominal Charge Power	4320 W @ 120V
Max PV Input Voltage	600 V
Max PV Input Current	12 A
Max PV Short Circuit Current	18 A
Startup Voltage	24 V
MPP Voltage Range	215 – 540 V
Total Backfeed Current (Ibf Total)	0 A
Overload Behavior	Operating Point Shift (Power Limitation)
PV Reverse Polarity Protection	Yes
Earth Leakage Current Detection	Yes
Overvoltage Category	DC II
Overvoltage Protection	DC Type II
Safety Protection Class	
Pollution Degree (Internal)	
Pollution Degree (External)	
Max Conversion Efficiency	98.7%
Ambient Operating Temperate Range (Full Rating up to 80% Ambient ° C)	-20 to +50 °C
Storage Temperature	-30 to +70 °C
Self-Consumption @ Night	2 W
Allowable Relative Humidity	4 – 95% (Non-Condensing)
Cooling Method	Active (User Serviceable)
Display	Indication LED Strip
Required Cabinet Air Exchange Rate	14 m³/hour
(Intake @ 40°C)	
Communications	RS485 / CAN Bus
Certifications	IEC62109-1:2010
	EN61000.6.3:2012
	EN61000.6.4:2012

Australian Energy Research Laboratorie Head Office 2/75 Bluestone Circuit, Seventeen Mile Rocks, QLD, AU Tel: +61 1800 950 865 sales@aerl.com.au



AERL reserves the right to change any product, product specifications and data without notice to improve reliability, function, or design or otherwise.