



CoolMax SRX Charge Controller

Maximum Power Point Tracker (MPPT)

The **CoolMax SRX** 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



High Input Voltage
for Ease of Install



On-Board Ground
Fault Detection



PV Array Oversizing
Support (+200%)



Compatible with
most Battery Systems



Reverse Polarity and
Current Protection



Built-In Overload and
Thermal Protection



Designed for
Long Term Reliability



Australian Made



Australian Energy Research Laboratories

📍 2/75 Bluestone Circuit, Seventeen Mile Rocks, QLD

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aerl
ISO 9001
QUALITY
Management System


AUSTRALIAN
MADE

TUV
CERTIFIED

CoolMax SRX Charge Controller

Maximum Power Point Tracker (MPPT)

General Specifications	
Parameter	Typical
Weight	5.65 kg
Dimensions (H x W x D)	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 ² -> 42mm ²)

Characteristics	SRX 600/70-48
Nominal Battery Voltage / Vdc Range	24 V / 18 – 30 48 V / 40 – 60
Max Charge Current	70 A
Nominal Charge Power	2016 W @ 24 V 4032 W @ 48 V
Max PV Input Power	Nominal Charge Power x 2.0
Max PV Input Voltage (Voc)	600 V
MPP Voltage Range (Vmp)	170 – 500 V
Min PV Operating Voltage	100 V
Max PV Input Current (Imp)	18 A
Max PV Short Circuit Current (Isc)	25 A
Device Startup Voltage	24 V
Total Backfeed Current (Ibf Total)	0 A
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)	III
Max Altitude Rating	2000m
Max Conversion Efficiency	96.2%
Ambient Operating Temperate Range (Maximum Charge Current derates by up to 10% Per ° C above 80% Ambient ° C)	-20 to +50 °C
Storage Temperature	-30 to +70 °C
Self-Consumption @ Idle	3 W
Allowable Relative Humidity	4 – 95% (Non-Condensing)
Cooling Method	Active (User Serviceable)

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