SRX

SRX 600/30–120 · 4320 W Charge Power



600 Vdc	30 A	4320 W	96.2%
Max PV input	Max charge current	Nominal @ 120 V	Peak efficiency

Specifications

SRX 600/30-120

The CoolMax SRX is a Maximum Power Point Tracker (MPPT) and battery charger built on over thirty years of AERL MPPT and charging experience. High conversion efficiency, intelligent thermal management and accurate tracking make it a key component of a high-quality DC-coupled power system.

General

Weight
5.65 kg

Dimensions (W × H × D)
192 × 432 × 89 mm

Enclosure
Indoor Type 1 / IP20

Mounting
Wall mount bracket

I/O power connectors
Screw 8–35 mm²

Communications
RS485 / CAN / USB

Cooling method
Active (serviceable)

Max conversion efficiency
96.2%

MPPT tracking loss
< 0.5%

Self-consumption @ idle
3 W

Warranty
2 yr · 5 yr registered · 10 yr (Plus 5)

Battery (output)

Nominal battery voltage
120 V

Battery voltage range
90–170 Vdc

Max charge current
30 A

Nominal charge power @ 120 V
4320 W

Charging method
3-stage CCCV

Temp. compensation
50 mV/°C (default)

PV input

Max PV input power
Nom × 2.0

Max PV input voltage (Voc)
600 V

Nominal device voltage
336 V

MPP voltage range (Vmp)
215–540 V

Min PV voltage (MPPT)
200 V

Max PV input current (Imp)
18 A

Max PV short-circuit (Isc)
25 A

Startup voltage
60 V and ≥ V_{bat} + 10 V

Total backfeed (Ibf Total)
0 A

Safety & environment

Overload behaviour
Power limitation

PV reverse-polarity protection
Yes

Pre-charge protection
Yes

Earth-leakage detection
Yes

Overvoltage category
DC II

Overvoltage protection
DC Type II

Safety protection class
I

Pollution degree (int. & ext.)
III

Max altitude
2000 m

Operating temperature
−20 to 50 °C

Storage temperature
−30 to 70 °C

Relative humidity
4–95% NC

- **High input voltage for easier installation**
- **On-board ground fault detection**
- **PV array oversizing up to 200%**
- **Compatible with most battery systems**
- **Reverse polarity & current protection**
- **Built-in overload & thermal protection**
- **Designed for long-term reliability**
- **Australian engineered**

Engineered and supplied by

Australian Energy Research Laboratories
1/75 Bluestone Circuit, Seventeen Mile Rocks
QLD 4073

Designed to meet

IEC 62109-1 (safety)

Contact

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