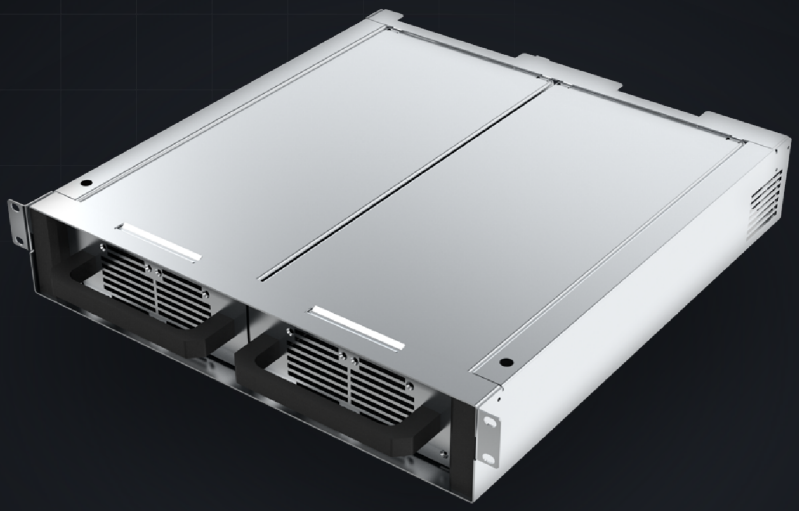
SRX-R G1

First Generation · SRX-R 600/60-48 · 48 V



600 Vdc
Max PV input

60 A
Max charge current

3456 W
Nominal @ 48 V

96%
Max efficiency

Specifications

The first-generation (G1) CoolMax SRX-R 600/60-48, a rack-mount solar MPPT charge module built on over thirty years of AERL MPPT and battery charging experience. For current (G2) modules, see the CoolMax SRX-R 48 V Datasheet.

General

Weight	**6.2 kg**
Dimensions (W × H × D)	**192 × 78 × 432 mm**
Enclosure	**Indoor Type 1 / IP20**
Mounting	**2U Rack**
I/O power connectors	**Backplane Connector**
Communications	**RS485 / CAN**
Display	**LED indicator strip**
Cooling method	**Active (serviceable)**
Cabinet air exchange (40 °C)	**25 m³/hour**

Battery (output)

Nominal battery voltage	**48 V**
Battery voltage range	**40–60 Vdc**
Max charge current	**60 A**
Nominal charge power	**3456 W @ 48 V**
Max conversion efficiency	**96%**
Self-consumption @ idle	**3.5 W**

Environment

Max altitude	**2000 m**
Operating temperature*	**−20 to 50 °C**
Storage temperature	**−30 to 70 °C**
Relative humidity	**4–95% NC**

* Full rating up to 80% of the upper ambient limit.

PV input

Max PV input power	**5184 W**
Max PV input voltage (Voc)	**600 V**
MPP voltage range (Vmp)	**170–500 V**
Max PV input current (Imp)	**14 A**
Max PV short-circuit (Isc)	**20 A**
Startup voltage	**60 V**

Warranty

See the AERL warranty statement for CoolMax SRX-R, at aerl.com.au.

Safety

Overload behaviour	**Power limitation**
PV reverse-polarity protection	**Yes**
Earth-leakage detection	**Yes**
Overvoltage category	**DC II**
Overvoltage protection	**DC Type II**
Safety protection class	**I**
Pollution degree (int. & ext.)	**I**

2U rack format for easier installation & servicing

Scalable for large storage applications

Remote module control & monitoring

Utility grade — long-term reliability

PV array oversizing up to 150%

Reverse polarity & current protection

Built-in overload & thermal protection

On-board ground fault detection

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Engineered by

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

Origin & standards

Australian engineered
IEC 62109-1:2010
EN 61000.6.3:2012
EN 61000.6.4:2012

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