SRX HV 300

SRX HV 300/30 · SRX HV 300/40 · 120 V



300 Vdc
Max PV input

30 / 40 A
Max charge current

120 V
Nominal battery

98.7%
Peak efficiency

Specifications

SRX HV 300/30 · SRX HV 300/40

The CoolMax SRX HV 300 is an MPPT solar charge controller for 120 V DC-coupled battery systems. It is no longer manufactured; this datasheet is re-issued for installed systems. For a new system, see the CoolMax SRX 600/30-120. Where two values are given, they are for the SRX HV 300/30 and SRX HV 300/40, in that order.

General

Weight	**6.8 kg**
Dimensions (W × H × D)	**226 × 480 × 111 mm**
Enclosure	**Indoor Type 1 / IP20**
Mounting	**Wall, 8 × M5**
I/O power connectors	**Screw 8–42 mm²**
Communications	**RS485 (Modbus RTU) / CAN**
Communications ports	**RJ45 / USB Mini-B**
Max conversion efficiency	**98.7%**
Self-consumption @ idle	**100 mA at 20 V**
Warranty	**3 yr · 5 yr registered**

Battery (output)

Nominal battery voltage	**120 V**
Battery voltage range	**90–170 Vdc**
Max charge current	**30 A / 40 A**
Nominal PV power @ 144 V absorb	**4320 W / 5760 W**
Charging method	**3-stage (absorb, float, rebulk)**
Temp. compensation	**Yes (SRX-RTS sensor)**

PV input

Max PV open-circuit voltage	**300 V at lowest temperature**
Max PV short-circuit current	**25 A / 35 A**
Min PV MPP voltage	**1.3 × nominal battery voltage**
PV array oversizing	**Up to 140%**
Startup voltage	**40 Vdc**
Overload behaviour	**Operating point shift (power limitation)**

Environment

Operating temperature	**−20 to 60 °C**
Storage temperature	**−30 to 70 °C**
Cabinet air exchange (40 °C intake)	**18 / 20 m³/hour**
Heatsink rise at full power	**30 / 35 °C**
Sealed inductors, conformal coating	**Yes**

Options

Ground fault detection (floating)	**EarthGuard EG-600**
Remote temperature sensor	**SRX-RTS (3–10 m)**

- **High input voltage for easier installation**
- **PV array oversizing up to 140%**
- **Reverse polarity & current protection**
- **Built-in overload & thermal protection**
- **Master/slave operation**
- **Touch-screen configuration**
- **Multi-stage battery charging**
- **Australian engineered**

Engineered and supplied by

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

Conforms to

IEC 62109-1
EN 61000-6-3:2012
EN 61000-6-4:2012

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