# SRX MV 300

SRX MV 300/50 · SRX MV 300/60 · 24 / 48 V




| 300 Vdc | 50 / 60 A | 24 / 48 V | 98.3% |
|---|---|---|---|
| Max PV input | Max charge current | Nominal battery | Peak efficiency |

# Specifications

SRX MV 300/50 · SRX MV 300/60

The CoolMax SRX MV 300 is an MPPT solar charge controller for 24 V and 48 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 600/70-48. Where two values are given, they are for the SRX MV 300/50 and SRX MV 300/60, 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 | **98.3%** |
| Self-consumption @ idle | **100 mA at 20 V** |
| Warranty | **3 yr · 5 yr registered** |

## Battery (output)

| | |
|---|---|
| Nominal battery voltage | **24 V or 48 V** |
| Battery voltage range | **20–60 Vdc** |
| Max charge current | **50 A / 60 A** |
| Nominal PV power, 48 V battery | **2880 W / 3456 W** |
| Nominal PV power, 24 V battery | **1440 W / 1728 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 | **32 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) | **14 / 16 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**


Contact

1800 950 865
support@aerl.com.au
aerl.com.au