

# lamaPLC: MPPT solar charging Controller Modules

## SD05CRMA

The SD05CRMA is a compact Solar Charge Controller module based on the CN3163 integrated circuit. It is designed specifically to charge single-cell 3.7V Lithium-Ion (Li-Ion) or Lithium-Polymer (LiPo) batteries using solar energy.

### Core Specifications

- **Input Voltage:** DC 4.4V to 6.5V (optimized for 5V solar panels).
- **Output Voltage:** DC 4.2V (standard charging voltage for Li-Ion/LiPo).
- **Maximum Charge Current:** 1.0A by default.
- **Operating Temperature:** -40°C to +85°C.
- **Dimensions:** Approximately 18mm x 10.16mm x 2.7mm

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