

CA Series (5-8 A)

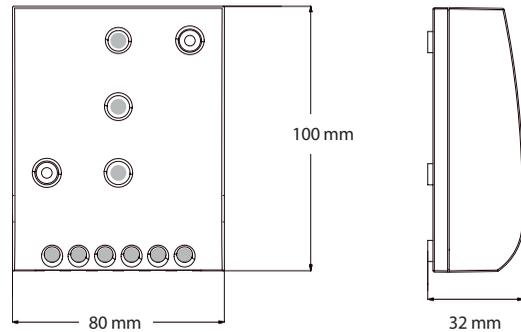
Solar Charge Controller



phocos



Technical Drawing



Product Introduction

The CA series is designed for low-cost applications and is ideal for small solar systems in need of a low battery disconnect feature. The electronic circuit is equipped with a microcontroller that provides high-efficiency charging technology together with a number of outstanding features like status display, warning and safety functions.

Leisure and rural electrification systems are the typical applications for the CA controllers. They provide a perfect solution for cost-sensitive systems that require state-of-the-art system management.

Product Features

- 1 battery state-of-charge LED
- Two-stage PWM regulation: boost and float charging
- Large terminals: up to 16 mm² wire size
- Compatible with maintenance-free batteries

Optional Accessories

CX-DR2

- DIN rail mounting plate that enables mounting the CA controller on standard 35 mm DIN rail

Technical Data

Type	CA 06	CA 08
System Voltage	12 V	
Max. Charge Current	5 A	8 A
Max. Load Current	6 A	8 A
Float Charge	13.7 V (25 °C)	
Boost Charge	14.5 V (25 °C) Activation: battery voltage < 12.3 V	
Deep-Discharge Protection	11.5 V (by voltage)	
Reconnect Level	12.5 V	
Overvoltage Protection	15.5 V	
Undervoltage Protection	10.5 V	
Max. Panel Voltage	30 V	
Idle Self-Consumption	< 4 mA	
Grounding	Positive grounded	
Ambient Temperature	-40 to +50 °C	
Max. Altitude	4,000 m above sea level	
Battery Type	Lead acid (gel, AGM)	
Max. Wire Cross Section	16 mm ² (AWG 6)	
Dimensions (WxHxD)	80 x 100 x 32 mm / 3.1 x 4 x 1.3 in	
Weight	0.18 kgs / 0.40 lbs	
Ingress Protection	IP22	
Certificates	CE compliant, RoHS compliant	
Warranty	2 years	