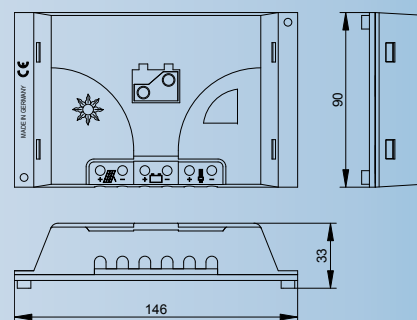




Solar Charge Controller



Steca PR

PR 0303, PR 0505

Power class

3 A - 5 A



The photovoltaic controllers PR 0303 and PR 0505 are used in small solar home systems with either a 3 or 5 Amp solar charging and load current capacity (up to 75 Wp). Loads such as lights, radios or small TVs can be switched „off“ manually on the controller without additional wall mounted switches. In professional applications such as telecommunication, the controller can also be used in small photovoltaic power supply systems. Thanks to the universal series switching technology the controller can be used with amorphous, thin film and crystalline solar modules.

Certificates

- approved for Worldbank funded projects in Laos
- conform to European Standards (CE)
- Made in Germany
- manufactured in a
 - DIN EN ISO 9001:2000 and
 - DIN EN ISO 14001 facility



Solar Charge Controller	PR 0303	PR 0505
system voltage	12 V	
max. module input short circuit current	3 A	5 A
max. load output current	3 A	5 A
max. self consumption	3 mA	
end of charge voltage (float)	13.7 V	
boost charge voltage	14.4 V	
equalisation charge	-	
reconnection setpoint (LVR)	12.5 V	
deep discharge protection (LVD)	11.0 V...11.5 V	
ambient temperature allowed	-25 °C...+50 °C	
terminal size (fine / single wire)	6 mm ² / 10 mm ²	
enclosure protection class	IP 22	
weight	160 g	
dimensions l x w x h	146 x 90 x 33 mm	

Technical data at 25 °C / 77 °F

Features

- voltage regulation
- automatic electronic fuse
- manual load switch
- PWM series battery charging
- boost charging
- float charging
- current compensated deep discharge protection (SOC / LVD)
- automatic load reconnection
- temperature compensation
- positive grounding
- (or) negative grounding on one terminal

Electronic Protections

- high voltage disconnect (HVD)
- low voltage disconnect (LVD) current compensated
- reverse polarity of solar modules
- reverse polarity of load & battery
- electronic fuse
- short circuit of solar modules
- short circuit of load
- lightning protection by varistor
- low electronic interference (EMC)
- open circuit battery
- reverse current at night

Displays

three LEDs

- (1) battery charging LED
- (2) green LED = battery full
- (3) red LED = battery empty