

# Solar Charge Controller

SLS-3(30A-60A)



## Brief Introduction

Our photovoltaic(PV)controller adopts the advanced electrical controlling technology,through which sun energy converts into electricity and surplus electricity stores in the battery .Comparing to normal PV controller protection voltage,our PV controller adopts small current for charging,in this way it can improve the utilization factor of solar cells and extend the lifetime of battery.Therefore our PVcontroller is an ideal controller for charge/discharge controlling in the solar applied system.In addition,our PV controller has advanced light control function to solar powered lighting system,it automatically switches on the lamp at night and switches off at day time,it also can switch off the lamp by the setting time,so this controller specially is suitable for controlling street light and PV power supply system.

## Main Functions

Our PV controller has the following protection functions:

- Battery reverse connection protection
- Over load and short circuit protection
- Battery open circuit protection
- Deep discharge and overcharge protection
- Solar panel reverse polarity connection protection
- Back flow from battery to solar module protection
- Lighting surge protection(in case necessary )
- LCD display

## Technical data

TYPE	5A	6A	8A	10A	12A	16A	20A	24A	30A	40	45A
Rated voltage(Va)	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V	12V/24V 36V/48V	12V/24V 36V/48V	12V/24V 36V/48V
Rated load current(A)	≤5A	≤6A	≤8A	≤10A	≤12A	≤16A	≤20A	≤24A	≤30A	≤40A	≤45A
Over charge Voltage(V)	13.7V	13.7V	13.7V	13.7V	13.7V	13.7V	13.7V	13.7V	13.7V	13.7V	13.7V
Over discharge Voltage(V)	10.5-11V	10.5-11V	10.5-11V	10.5-11V	10.5-11V	10.5-11V	10.5-11V	10.5-11V	10.5-11V	10.5-11V	10.5-11V
Temperature Compensation	-3mv/°C/cell										
Empty load	≤20mA	≤20mA	≤20mA	≤20mA	≤20mA	≤30mA	≤30mA	≤30mA	≤45mA	≤45mA	≤45mA
Cable size(max)	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup>	4 mm <sup>2</sup>	4 mm <sup>2</sup>	4 mm <sup>2</sup>	6 mm <sup>2</sup>	6 mm <sup>2</sup>	6 mm <sup>2</sup>
Loop voltage drop	<120mv	<140mv	<160mv	<200mv	<210mv	<200mv	<240mv	<280mv	<200mv	<240mv	<270mv



**OSAKA INTER-TRADE INC.**

13-9-303, ENOKI-CHO, SUITA, OSAKA, 564-0053, JAPAN

Tel +81.6.6378.1359 Fax +81.6.6338.4641

E-MAIL: oit@aqua.famille.ne.jp URL: <http://www4.famille.ne.jp/~oit/>