

Client: Zylux Document Ref. No. RDS-SR010 Designed and Made for Australian Conditions

Client Model No.: OC-SR10

Approved By: Troy Product Name: 12V 10A Solar Controller Panel with LCD Date: 18-Jun-09 Type of Battery: 12V Gel, AGM, Conventional Calcium Revision: 1.0

1	Electrical Parameters			Unit
1-1	Normal input solar cell array voltage :	16.5	Тур.	Vdc
1-2	Max. solar cell array voltage (when output no load)	23	Max.	Vdc
1-3	Current Consumption when connected 15V Array (battery not present):	30	Max.	mAdc
1-4	Current Consumption when connected 12V battery (Array not present):	15	Max.	mAdc
2	Output Control & metering Characteristics			
2-1	Normal Start up Charging Condition :			
2-1-1	Charging start when Battery voltage not less than	5.0	+/- 1	Vdc
2-1-2	Input solar cell array voltage	16.5	Тур.	Vdc
2-2	Charging current (continuous) :	10		Adc
2-3	Charging current (Peak), Max (30 seconds)	12		Adc
2-4	Level 1 Cut-out Control Voltage:(for GEL Battery)	14.5	+/- 0.3	Vdc
2-5	Level 1 Cut-out Control Voltage: (for AGM/Flooded Battery)	14.7	+/- 0.3	Vdc
2-6	Level 2 Cut-in Control Voltage:(for GEL Battery)	13.6	+/- 0.3	Vdc
2-7	Level 2 Cut-in Control Voltage:(for AGM/Flooded Battery)	13.8	+/- 0.3	Vdc
2-8	Minimum LCD Display Voltage *	6.0	+/- 0.3	Vdc
2-9	Maximum LCD Display Voltage *	19.0	+/- 0.3	Vdc

* The voltage range may be out of these ranges when input current is different. Note:

Protection

3-1-1	Over temperature protection active at above #	85 *C
3-1-2	The charger will resume the charging at about	75 *C

3-2 **Battery Reversed Protection**

When over temperature protection is activated, the Yellow LED will be "OFF". Note:

LED Indication

4-1	LED Indication	LED Indication S	Solar Power	Charging	Float
		Colour	RED	Yellow	Green
4-2	Solar Power Present, Battery not present		ON	OFF	OFF
4-3	Bulk Charging mode		ON	ON	OFF
4-5	Float Mode/Maintaining Mode		ON	OFF	ON
4-6	Battery Reversed		ON	OFF	OFF

Electrical Parts

Input Lead (Array) specifications : SPT-1 18AWG x 2C 105*C, External length : 915mm 5-1

5-2 Output Lead (Battery) specifications : SPT-1 18AWG x 2C 105*C with two terminal, External length:

915mm (10mm ring terminal for positive, 8mm ring terminal for negative)

Physical Parameters

6-1	Panel material:	Plastic, ordinary ABS
6-2	Panel Dimension :	120 (W) x 75 (L)
6-3	Overall Height:	approx. 25 mm
6-4	Net weight:	approx, 200g

Environmental Characteristics

7-1	Operating temperature :	-5 to 45 °C
7-2	Storage temperature :	-10 to 70 °C
7-3	Operating Humidility range:	0 to 80% RH

Charging Curve (Voltage)

