

PowerGuard series, higher capacity, intelligent charge controllers of Ammini Solar, uses advanced flash micro controller technology, matching the international standards and specifications. These charge controllers are ideally suited for higher current PV applications like power plants.

### FEATURES

- Flash micro controller based design
- Highly precise set points
- Temperature compensated
- Wide operating temperature range
- Excellent charging algorithm
- Adequate protections and indications
- Low idle current consumption
- Rugged, compact and easy to install
- Non-corrosive terminals
- Automatic battery voltage selection (12V/24V)



### TECHNICAL SPECIFICATION

Power Guard-10	
<b>General</b>	
Application	Solar electrification
Use	Indoor, Battery charging using Solar Module
Operating Temperature	-10 °C to 50°C
Storage Temperature	-25°C to 85°C
Charging method	Series, Four step charging algorithm, PWM
Battery temperature compensation	-4 to -5mV/°C/cell
Solar Module size (Max)	150Wp/300Wp
Indication	Charging, Low battery, Battery full charge and Low battery warning
<b>Electrical</b>	
Nominal system voltage	12V / 24V (Auto selection)
Charging current (Solar)	10A
Load current	10A
Charge controller efficiency	>95%
Idle consumption	<8mA
Drop between PV and Battery	~430mV
Drop between Battery and Load	~540mV
Protections	Against Module reverse current flow, Reverse battery, Over load, Short Circuit, Under voltage, Over voltage, Over temperature, Under temperature
<b>Mechanical</b>	
Fixing	Wall mounting with screws
Case	Injection Moulded Engineering Plastic
Cable entry size	6.0 Sq.mm (Max.) (With fork terminal)
Size (Shipping) (LxWxD)	170 X 185 X 35 mm
Weight (Shipping)	330 gms

### ORDERING INFORMATION

Ordering code	Model	System voltage	Max. Module wattage	Max. Charging current	Maximum Load current	Battery type
029-007	SCC-U1010A	12V/24V DC	150/300Wp	10A	10A	Flooded
029-008	SCC-U1010B	12V/24V DC	150/300Wp	10A	10A	VRLA (SMF)