

SOLAR CHARGE CONTROLLER

PowerGuard- 20A/30A



ISO 9001:2000



PowerGuard series, higher capacity, intelligent charge controllers from 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
- LCD status display
- Adequate protections and indications
- Low idle current consumption
- Rugged, compact and easy to install
- Non-corrosive terminals
- Automatic battery voltage selection

TECHNICAL SPECIFICATION

	PowerGuard 20	PowerGuard 30
General		
Application	Solar electrification	
Use	Indoor, Battery charging using Solar Module	
Operating Temperature	-10 ^o C to 50 ^o C	
Storage Temperature	-25 ^o C to 85 ^o C	
Charging method	Series, Four step charging algorithm, PWM	
Battery temperature compensation	-4mV to -5mV/ ^o C/cell	
Solar Module size (Max)	300Wp/600Wp	450Wp/900Wp
Indication	Battery type, charging, Full charge, Low bat. warning, Low bat. load OFF	
Electrical		
Nominal system voltage	12V / 24V (Auto selection)	
Charging current (Solar)	20A	30A
Load current	10A	15A
Charge controller efficiency	>95%	
Idle consumption	<15mA	
Drop between PV and Battery	~370mV	~530mV
Drop between Battery and Load	~310mV	~270mV
Protections	Against Module reverse current flow, Reverse battery, Over load, Short Circuit, Under voltage, Over voltage, Over temperature, Under temperature	
Mechanical		
Fixing	Wall mounting with screws	
Case	Injection Moulded Engineering Plastic	
Cable entry size	16 Sq.mm (Max.) (with fork terminal)	
Size (Shipping) (LxWxD)	190 X 130 X 65 mm	
Weight (Shipping)	750 gms	

ORDERING INFORMATION

Ordering Code	Model	System voltage	Max. Module wattage	Max. Charging current	Maximum Load current	Battery type
029-026	SCC-U2010A	12V/24V DC	300/600Wp	20A	10A	Flooded/VRLA
029-025	SCC-U3015A	12V/24V DC	450/900Wp	30A	15A	Flooded/VRLA