



# SOLAR POWER OFF-GRID RANGE 2013

**ReneSola**

**SMA**

**steca**  
Elektronik

**NEUTON  
POWER**

**CROWN**  
BATTERY  
SINCE 1989

**VISION**



[www.yhipower.co.nz](http://www.yhipower.co.nz)



## SUNNY ISLAND 5048 The Island manager

Commissioning just takes a few minutes: For Sunny Island 5048, the settings needed for operation can be configured in very few steps. It is flexible in its application, extendable and takes on all control processes.

Its first-class battery management ensures maximum battery life. In addition, the device is highly efficient, has an ergonomic die-cast aluminium enclosure and an OptiCool active cooling system.

### Efficient

- High efficiency
- Intelligent battery management for maximum battery life
- Charge level calculation

### Flexible

- For systems from 3 kW to 300 kW
- Single and three-phase operation, connectable to parallel and modularly extendable
- AC and DC coupling

### Simple

- Easy commissioning with the "Quick Configuration Guide"
- Complete off-grid management

### Reliable

- 5 year SMA warranty

YHI PART CODE  
#SI5048



Areas of application:



## Steca Solarix PI 550, 1100

In developing the Solarix PI sine wave inverter, Steca has brought about some innovations which are unprecedented in this form. These are, above all, parallel connection, the novel operating concept which uses a single rotary switch, direct communication in order to calculate the state of charge (SOC) with Steca Tarom and Steca Power Tarom, and the electronic fuse. Furthermore, our many years of experience have come into play for deploying these inverters specifically in photovoltaic systems. This comes through, for instance, in the way that a most diverse range of appliances is provided with a low operating consumption and a stable energy supply.

### Product features

- True sine wave voltage
- Can be connected to the Steca Power Tarom with a Steca PAX4 parallel switch box
- Excellent overload capabilities
- Optimal battery protection
- Automatic load detection
- Parallel connectable
- Best reliability
- Protective insulation according to protection class II
- Control by digital signal processor (DSP)

### Electronic protection functions

- Deep discharge protection
- Battery overvoltage shutdown
- Overtemperature and overload protection
- Short circuit protection
- Reverse polarity protection
- Automatic electronic fuse

### Display

- Multi-coloured LED shows operating states

### Operation

- Main switch
- Adjustable load detection

### Certificates

- Compliant with European Standards (CE)
- Made in Germany
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

### 2 Year Factory Warranty

### Optional

- Parallel kit to connect up to four Solarix PI inverters together

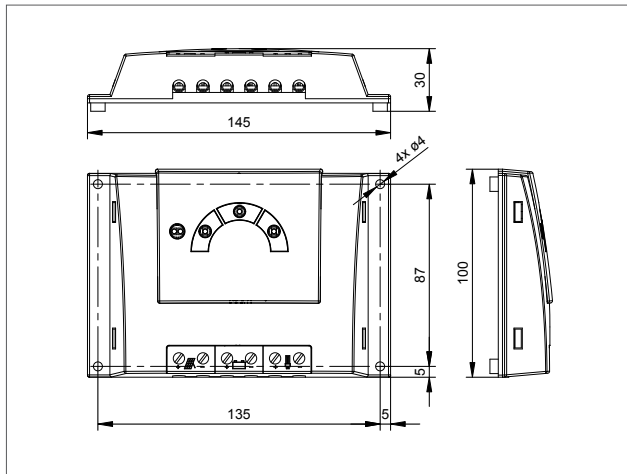
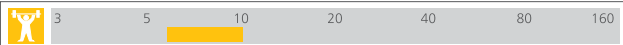


## Steca Solsum 6&10

The Steca Solsum F-Line continues the huge success of one of the most used SHS controllers. With a power range of up to 10 A at automatically recognized 12 V or 24 V it fits to a system sizes of maximum 240 W.

The circuit board is completely electronically protected and with the LED user interface it is easy to check the battery state of charge at any time. Large terminals guarantee a simple connection of solar panels, battery and load. The Steca Solsum F works on PWM as a low loss series controller.

6 A...10 A



Areas of application:



### Product features

- Series controller
- Voltage regulation
- Automatic detection of voltage
- PWM control
- Multistage charging technology
- Current compensated load disconnection
- Automatic load reconnection
- Temperature compensation
- Common positive grounding or negative grounding on one terminal
- Monthly maintenance charge

### Electronic protection functions

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of load, module and battery
- Automatic electronic fuse
- Short circuit protection of load and module
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- Battery overvoltage shutdown

### Displays

- Multifunction LED display
- Multi-coloured LED
- 4 LEDs show operating states for operation, state of charge, fault messages

### Options

- Night light function pre-set in the factory or adjustable via Steca PA RC 100
- Parameterisation of function values via Steca PA RC 100

### Certificates

- Compliant with European Standards (CE)
- RoHS compliant
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

**2 Year Factory Warranty**

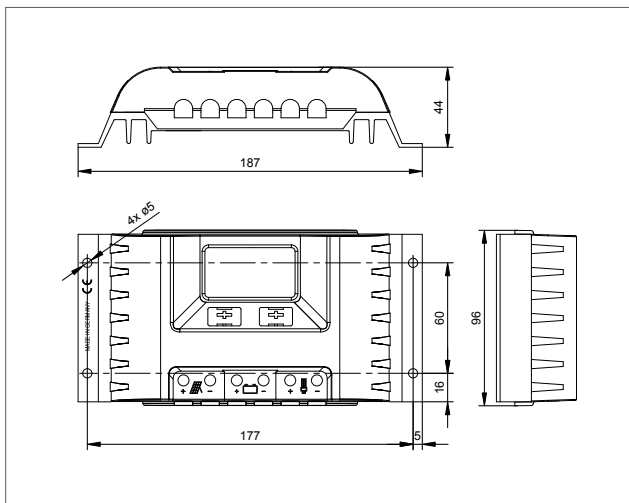
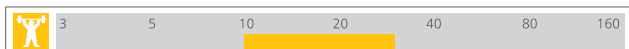


## Steca PR PR 1010, PR 2020, PR 3030

The Steca PR 10-30 series of charge controllers is the highlight in the range. The latest charging technologies, combined with a Steca-AtonIC state of charge determination which has been significantly improved once again, result in optimal battery maintenance and control of the module output of up to 900 Wp which can be connected to it.

A large display informs the user about all operating modes with the aid of symbols. The state of charge is represented visually in the form of a tank display. Data such as voltage, current and state of charge can also be displayed digitally as figures on the display. In addition, the controller has an energy meter which can be reset by the user.

Areas of application:



### Product features

- Hybrid controller
- State of charge determination with Steca AtonIC (SOC)
- Automatic detection of voltage
- PWM control
- Multistage charging technology
- Load disconnection depending on SOC
- Automatic load reconnection
- Temperature compensation
- Common positive grounding or negative grounding on one terminal
- Integrated data logger
- Night light and morning light function
- Integrated self test
- Monthly maintenance charge

### Electronic protection functions

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of load, module and battery
- Automatic electronic fuse
- Short circuit protection of load and module YHI PART CODE#
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- Battery overvoltage shutdown

### Displays

- Graphical LCD display

### Operation

- Simple menu-driven operation
- Programming by buttons
- Manual load switch

### Options

- Prepayment interface
- External temperature sensor
- Alarm contact

### Certificates

- Approved by the World Bank for Nepal
- Compliant with European Standards (CE)
- RoHS compliant
- Made in Germany
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

### 2 Year Factory Warranty

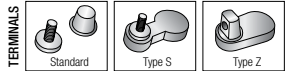


## 6, 8 AND 12 VOLT HEAVY DUTY DEEP CYCLE BATTERIES

Nobody builds them like Crown. Nobody. Because no one else invests in the heaviest, thickest plates in the industry. Ours are over 10% thicker than our competitors. Combine that with our proprietary PROeye™ and our low-maintenance container – features that make battery maintenance predictable and efficient – and you’ve got a battery that’s going to last longer and perform like no other.

- **Heat sealed Case and Cover Design**
- **PROeye™** No mess, no guess system for inspecting electrolyte levels that signals when watering is required
- **Posi-Wrap™ Envelope Separators** reduce maintenance and prevent failure due to short-circuiting and plate shredding, ensuring reliability and durability
- **Z3 Plate Construction** Crown’s Z3 design combines three integrated features for superior performance and durability.
  - Our signature “Diamond Z” grid architecture
  - An inset lug position
  - Our revolutionary “LifePlus™” active paste material
- **Heavy-Duty Construction** Crown deep cycle batteries are the heavyweight of the industry. More weight means more lead, which translates into a battery that will work and last longer.
- **X-TEND Container Design** provides more electrolyte above the battery plates so batteries can perform longer between watering intervals, lowering preventative maintenance costs and improving overall ROI on your Crown Battery purchase.
- **Rigid Connectors** Heavy-duty TTP, COS and Post connectors deliver maximum electrical efficiency and durability.

Product Code	Voltage (V)	Electrical Capacity Ratings		Physical Specifications			Terminal Type
		Ampere Hour Capacity		Length (mm)	Width (mm)	Height (mm)	
CR205	6	205	170	260	179	278	Standard
CR220	6	220	180	260	179	278	Std/Type S
CR225	6	225	171	260	181	267	Standard
CR235	6	235	195	260	181	267	Standard
CR245	6	245	209	260	181	292	Standard
CR275	6	275	228	298	183	286	Standard
CR325	6	325	280	310	183	368	Standard
CR395	6	395	320	310	183	419	Standard
CR43	6	430	340	314	183	410	Standard
CR165	8	165	146	262	181	283	S
CR24DC85	12	85	70	283	171	238	Standard
CR24DC95	12	95	75	273	171	235	Standard
CR27DC115	12	115	90	334	171	238	Standard
CR31DC130	12	130	105	334	175	238	Standard



Product Footnotes	
A	Standard Terminals
B	Stainless Steel Threaded Stud Terminals
C	Inserted Brass Terminals
D	Battery Fitted with Handle or Lifting Lug



## RENEWABLE CELL BATTERIES

**Solar. Wind. Energy Storage.** Guaranteed. This is where your solar and wind power investment pays off: in renewable energy storage systems that feature the reliability and longevity delivered by Crown Batteries. Unlike some manufacturers who simply repackaging existing battery products into a new array and call it an RE line, Crown Battery evaluated marketplace needs and developed an innovative array of storage battery products that provide best-available power storage solutions for solar and wind power systems.

Crown Batteries are the Heavy Weight – and that’s important. Because “heavy” means energy dense plates that use more active lead materials. Heavier plates that use more active lead materials are directly related to stronger battery performance and longevity. So, other things being equal, batteries with more active lead material will last the longest. And Crown leads the industry in terms of lead content per ampere-hour of rated capacity. Period.

No other renewable energy battery in the world can compete with the assured performance of Crown. No other manufacturer takes this Responsibility as seriously.

### Sustainability

- The most complete, dedicated array of RE batteries as compared with other manufacturers.
- Battery capacity ratings that range from 120 to 3690 ampere-hours (100 Hour Rate).
- Recognition of Crown Renewable Power Batteries as “Best Available” and “Most Reliable” by serious system owners.

Part Number	Product Code	Voltage (V)	100H Rate Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Weight (kg)	Product Footnotes
CRP21000	2CRP1400	2	1400	192	167	546	654	62	CD
CRP21400	2CRP2030	2	2030	268	167	546	654	88	CD
CRP21700	2CRP2500	2	2500	325	167	546	654	106	BD



## FM SERIES Batteries

VISION FM Series are designed for general-purpose applications, including UPS, telecom, and electrical utilities. With 10 years design life, the batteries comply to the most popular International standards, including IEC896-2, BS6290-4 and Eurobat Guide.

The battery container and cover are available both in V0 class flame retardant ABS or HBO ABS plastics. With more than 15 years of production experience, the VISION FM Series of VRLA batteries are recognized as the most reliable and high quality batteries in the industry.

### APPLICATIONS

- UPS
- Telecom Systems
- Solar Systems
- Electric Wheelchair
- Golf Car
- Emergency Power

### GENERAL FEATURES

- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Long Service Life in Float or Cyclic
- International Standard, JIS and DIN

Product Code	Voltage (V)	10H Rate Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Weight (kg)
3FM225SAM	6	225	260	180	247	267	31
3FM225	6	225	320	180	225	242	31
6FM33	12	33	195	130	155	168	11
6FM40	12	40	197	165	170	170	15
6FM55	12	55	229	138	208	220	19
6FM60	12	60	258	166	206	215	23
6FM65	12	65	350	167	179	179	23
6FM75	12	75	258	166	206	215	24
6FM80	12	80	350	167	179	179	25
6FM100	12	100	330	171	215	222	32
6FM120	12	120	410	176	227	227	38
6FM150	12	150	485	172	240	240	47
6FM200	12	200	522	238	218	223	65
6FM230	12	230	520	269	203	208	73



## GEL SERIES Batteries

Gel batteries feature some distinct advantages over flooded or AGM batteries such as better thermal stability, high deep discharge capability, excellent recovery from deep discharge

With the above mentioned advantages, the gel battery has long service life and is especially suited for motive power applications such as forklifts, golf carts and solar power applications.

### GENERAL FEATURES

- Maintenance- free operation
- Long service life, float or cyclic applications
- Low self discharge
- No gas emissions
- Excellent recovery

### APPLICATIONS

- Forklifts
- Golf Carts
- Solar Power
- Mobility Scooters
- Wind Power
- Marine
- Power Utilities

Product Code	Voltage (V)	10H Rate Capacity (Ah)	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Weight (kg)
CG12-80X	12	80	330	171	215	220	29.5
CG12-120X	12	120	482	170	240	240	44.5
CG12-160X	12	160	522	238	218	223	58.6
CG12-200X	12	200	520	269	203	208	70.0

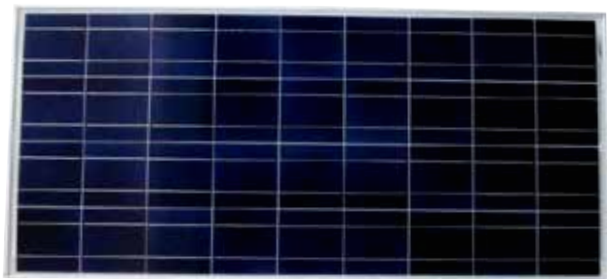
## Monocrystalline Solar Module

- 15/30/55/95 Watt
- IP65 Rated
- 10 Year Material Warranty
- 25 Year Linear Power Warranty



## Polycrystalline Solar Module

- 140 Watt
- IP65 Rated
- 10 Year Material Warranty
- 25 Year Linear Power Warranty



**YHI (NEW ZEALAND) LTD**  
A subsidiary of YHI International Limited

For more information on products in our Solar Product range please contact us on  
**0800 99 33 44** or visit **[www.yhipower.co.nz](http://www.yhipower.co.nz)**