





SOLAR EQUIPMENT FOR ACCESS AUTOMATION

Centurion Systems now offers a comprehensive range of solar panels and supporting equipment to help you harness the power of the sun, enjoy a greener lifestyle, reduced electricity bills and complete power failure autonomy. There's no better time to go solar!

CENTURION SOLAR PANELS AND ACCESSORIES

Our range of solar panels is constructed from ultra-efficient polycrystalline and has been designed to provide a reliable and cost-effective alternative energy solution for applications where mains power is either not available, or not desirable. We also supply brackets, regulators, deep-cycle batteries and battery enclosures, meeting your every solar need.



MAIN FEATURES

Mechanical Features

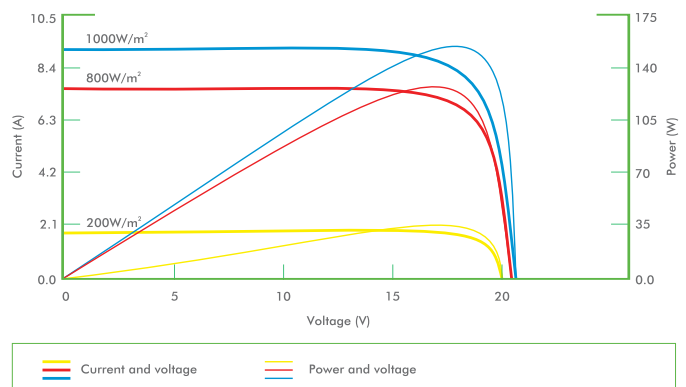
- Minimal voltage drops, even in shade
- Great solar cell conversion efficiency
- White tempered glass, EVA resin, weatherproof film and anodised aluminum frame to provide efficient protection from the most severe environmental conditions
- Perfect for grid applications
- Durable with limited maintenance and repair
- Easy to install and set up with our custom-made mounting bracket, saving you time and money
- Complete power failure autonomy, off-the-grid
- Cost-effective and reliable source of power
- Helps decrease your consumption of electricity from the grid
- Environmentally friendly

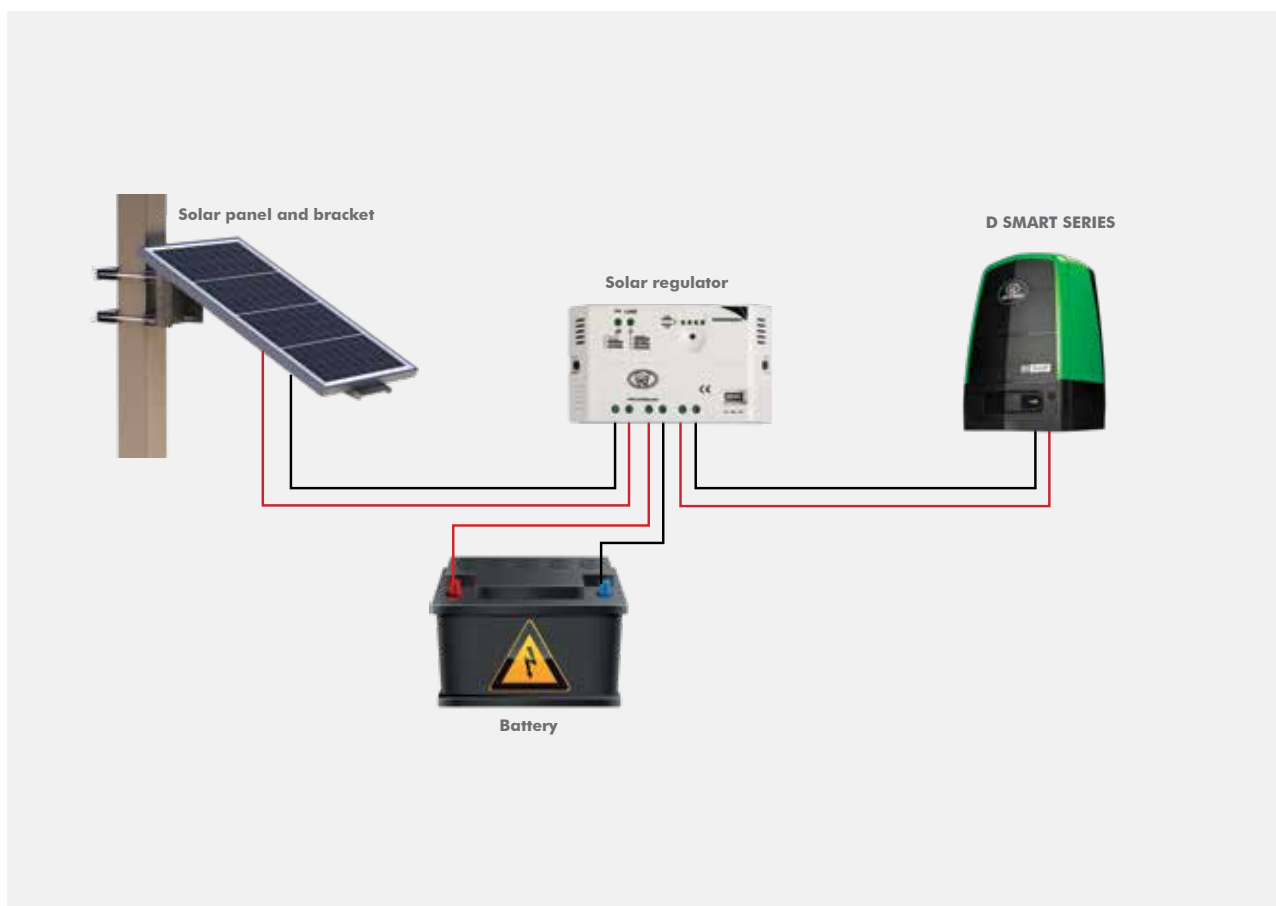
SOLAR PANELS

Type of module	40W	60W	80W	100W	150W
Maximum power	40W	60W	80W	100W	150W
Tolerance	± 3%	± 3%	± 3%	± 3%	± 3%
Open-circuit voltage	22.2V	22.2V	22V	22V	22.5V
Short-circuit current	2.37A	3.56A	4.85A	6,06A	8,56A
Maximum power voltage	18.2V	18.2V	18V	18V	18.5V
Maximum power current	2.2A	3.3A	4.44A	5.56A	8.11A
Module efficiency	12.84%	14.22%	13.05%	14.9%	15.2%
Solar cell efficiency	17.3%	17.26%	17.2%	17.2%	17.1%
Series fuse rating	15A	15A	15A	15A	15A
Terminal box	IP65	IP65	IP65	IP65	IP65
Maximum system voltage	1000V DC	1000V DC	1000V DC	1000V DC	1000V DC
Operating temperature	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Weight	4kg	5.1kg	7.3kg	8kg	12kg
Packaging dimensions	Length: 465mm x Width: 670mm x Height: 25mm	Length: 630mm x Width: 670mm x Height: 30mm	Length: 915mm x Width: 670mm x Height: 30mm	Length: 1005mm x Width: 670mm x Height: 30mm	Length: 1480mm x Width: 670mm x Height: 35mm

Current-voltage and power-voltage characteristics - various irradiance levels

Typical performance characteristics	
Current Temperature Coefficient %/°C	+0.06
Voltage Temperature Coefficient %/°C	-0.34
Power Temperature Coefficient %/°C	-0.47
Performance Warranty: 90%output, 12 year 80%output, 25 years	



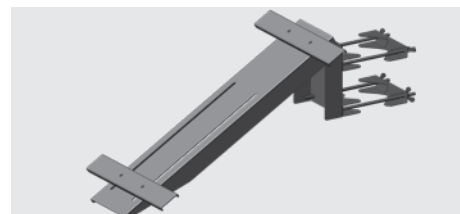


SOLAR EQUIPMENT FOR ACCESS AUTOMATION GUIDE



SOLAR REGULATOR 20A CHR9 L/SHED PWM USB

For monitoring the condition of your battery according to the power generated by your solar panels.



UNIVERSAL SOLAR PANEL BRACKET ASSEMBLY

Robust and versatile galvanised mild steel bracket suitable for mounting a variety of solar panels between 20W and 150W in size.



BATTERY BOX

Durable and secure for the safety and protection of your battery. 2 x CP5C2 batteries fits into the secure box. Comes with a theft-resistant cage.



BATTERY BOX

Durable and secure for the safety and protection of your battery. Suitable for a single CP5C2 battery.



DEEP-CYCLE BATTERY



CABLE SOLAR 4mm AND 6mm

Black and red with insulation and jacket materials. Extremely resistant to weathering, UV-radiation, abrasion, water and acids.



MALE SERIES MC4 CONNECTOR – POSITIVE

An easy-to-install connector system used to connect CENTURION solar panels. Consists of male and female connecting to the branch connectors.



FEMALE SERIES MC4 CONNECTOR – NEGATIVE

An easy-to-install connector system used to connect CENTURION solar panels. Consists of male and female connecting to the branch connectors.



MALE PARALLEL BRANCH CONNECTOR – POSITIVE

Branch Connectors are used to connect two MC4 Connectors in parallel.



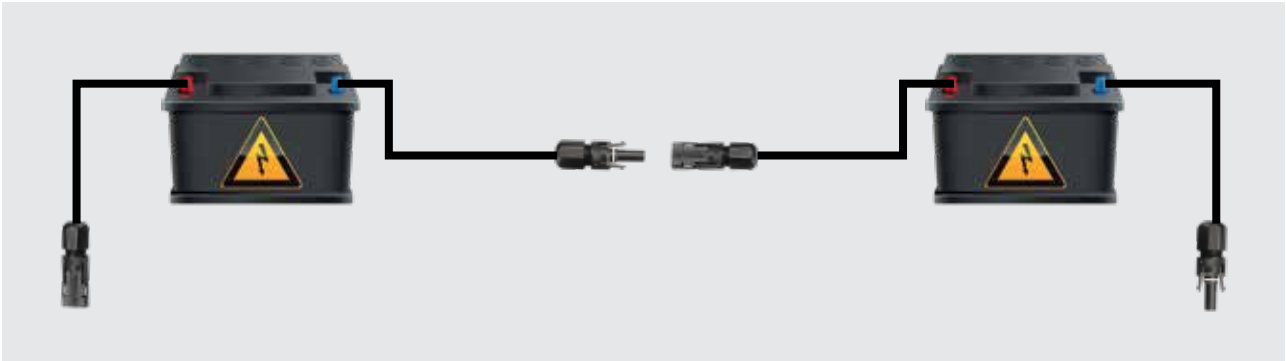
FEMALE PARALLEL BRANCH CONNECTOR – NEGATIVE

Branch Connectors are used to connect two MC4 Connectors in parallel.

SERIES AND PARALLEL CONNECTIONS

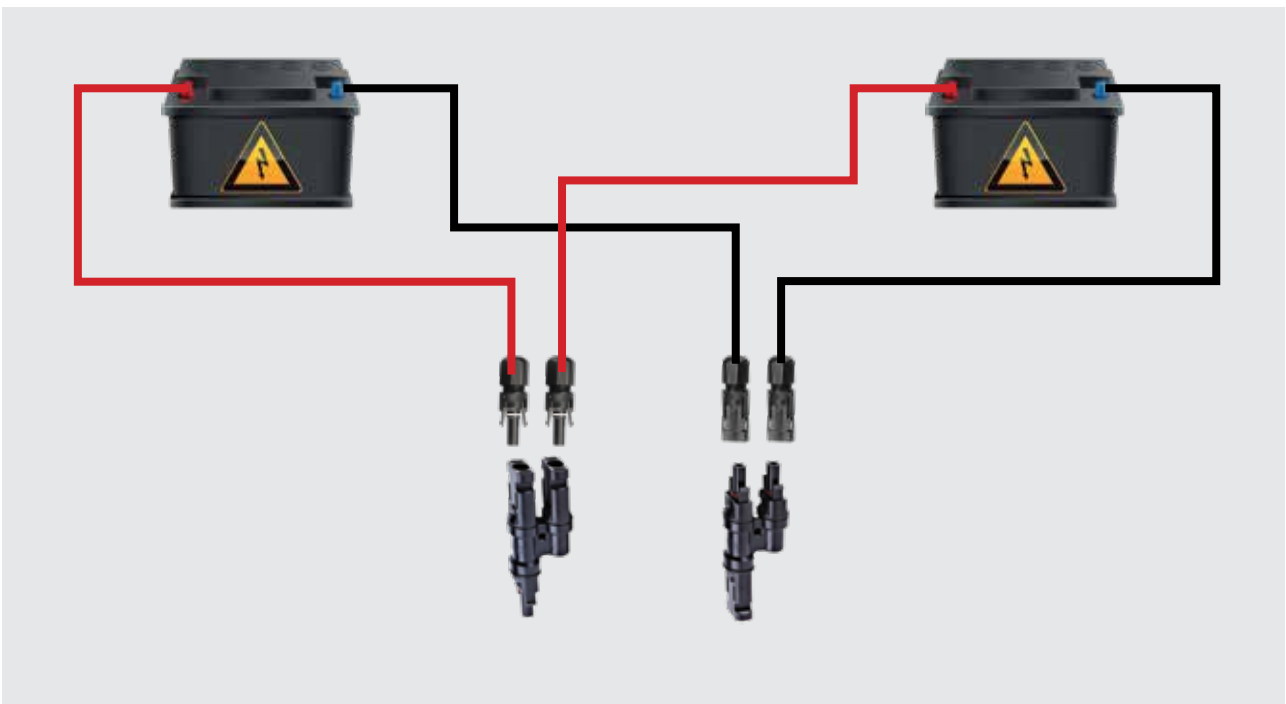
SERIES CONNECTION

The **Series Connection** is commonly used to increase the voltage range. If you require a 24V setup you would connect two 12V batteries together by connecting the positive and negative terminals of each battery together.



PARALLEL CONNECTION

The **Parallel Connection** is commonly used to increase the system capacity (watts) while still only supplying 12V. This is achieved by joining the positive and negative connections together as one.





MAKING LIVES EASIER WITH SOLAR-READY ACCESS AUTOMATION

From household appliances like refrigerators, stoves, and washing machines to office equipment like computers, printers, and scanners, the post-industrial world has given us countless tools and technologies that simplify our lives but also rely heavily on a steady supply of electricity. Without a reliable source of power, our daily routines and productivity can be disrupted, leaving us vulnerable and unable to function in a society that is increasingly dependent on technological innovation.

As power outages become more frequent in South Africa, it is increasingly important to prioritise security in every home and business. Without reliable access to electricity, security systems may fail, leaving homes and businesses vulnerable to theft and other crimes. While modern access control systems come in many different shapes and sizes, and are scalable, expandable and very often integrated or networked, the garage door represents an important access point

into one's home and, as such, it is vital that the automation system continues to provide dependable, safe and secure operation in the event of a power outage.

With solar-ready garage door motors, homeowners and businesses can ensure that their security systems continue to function even during power outages. This added layer of protection makes solar-ready garage door motors not only a crucial investment in the safety and security of one's property.

With the fully solar-ready, battery-driven SDO4 SMART garage door motor, power outages won't slow you down or compromise your security and peace of mind again. Enjoy uninterrupted operation and reap the benefits of eco-friendly, cost-effective solar power, while also enjoying smooth, whisper-quiet operation, cutting-edge safety and security features and a wide range of customising options for the ultimate in control. Our expertly-curated range of

solar solutions is your passport to hassle-free operation with or without mains power.

When choosing a solar backbone to power your garage door motor, factors such as quality, battery capacity, durability, ease of installation and cost are important – and our crack team of product specialists have the knowledge and expertise to help you choose the perfect solar-ready solution.

Elevate your garage game with the solar-ready SDO4 SMART. Contact us today and let us make your life easier.