



# SPS36

9 - 36kVA 20 - 82kWh

## Stand-alone Power System **SPS** Range.

A Battery Energy Storage System (BESS) designed for remote Australia, featuring advanced safety measures, smart monitoring, and a durable design for effortless installation, saving both time and money.



## Product Applications

### Off-Grid

Seamless integration with solar and generator power.

### EV Charging

Battery-buffered electric vehicle charging solutions

### Industrial UPS

Industrial-grade solar uninterruptible power supply.

### Solar Pumping

Dependable 24/7 off-grid solar pumping for consistent operation.

#### Safe

- Advanced Energy Management System for safety and performance.
- Safe battery management for LFP cells.
- Integrated hazard mitigation technologies.

#### Smart

- Integrated DC Coupled MPPT.
- System monitoring with external device support.
- Latest modular inverter and MPPT with smart generator control.

#### Strong

- Heavy duty base.
- Rugged, air-conditioned enclosure with thermal insulation for maximum battery & equipment life.
- Durable powder coating.
- IP55/IP56 Dual Zone rating.

#### Simple Install

- Scalable battery system for easy expansion.
- Heavy duty base for hassle free placement.
- Simple maintenance.
- Fast site commissioning.



Australia's most flexible & **reliable** energy control system.

1300 654 547  
354 Cormack Road, Wingfield, SA 5013  
email@powercore.com.au

# POWERCORE SPS36

|                            |                        |             |
|----------------------------|------------------------|-------------|
| Power Type                 | Single Phase           | Three Phase |
| Max Power                  | 24kVA                  | 36kVA       |
| Max System Energy Capacity | 82kWh                  |             |
| Integrated Solar           | 21kW (DC) 31kW (DC PV) |             |

## SYSTEM DIMENSIONS

| SPECIFICATIONS | UNIT | RANGE     |
|----------------|------|-----------|
| Length Approx. | mm   | 2297      |
| Width          | mm   | 1030      |
| Height         | mm   | 1655      |
| Weight         | kg   | 1400/1800 |

## SINGLE PHASE

| SPECIFICATIONS             | UNIT         | RANGE                                  |
|----------------------------|--------------|----------------------------------------|
| Apparent Power Output      | kVA          | 9 / 12 / 15 / 18 / 21 / 24             |
| Real Power Output          | kW           | 7.2 / 9.6 / 12 / 14.4 / 16.8 / 19.2    |
| Peak Apparent Power Output | kVA (15 sec) | 11.25 / 15 / 18.25 / 22.5 / 26.25 / 30 |
| Peak Real Power Output     | kW (15 sec)  | 9 / 12 / 15 / 18 / 21 / 24             |
| Rated Output Voltage       | V            | 230                                    |
| Frequency                  | Hz           | 50                                     |
| Phase                      |              | 1                                      |
| Max Integrated Solar MPPT  |              | 6                                      |
| Gen Input Power            | Amps         | 100                                    |
| Max Power in Bypass        | Amps         | 100                                    |
| Max Inverter Number        |              | 8                                      |
| Max System Energy Capacity | kWh          | 82                                     |
| Battery Type               |              | LiFePO4                                |
| Nominal DC Voltage         | V            | 51,2                                   |
| Battery Cycles             |              | >5000                                  |
| Discharge Depth            | %            | 90                                     |
| Operating Altitude         | M            | 2000                                   |
| Operating Temperature      | °C           | -20 to +50                             |
| IP Rating                  | IPxx         | IP55 / IP56 Dual Zone                  |

# THREE PHASE

| SPECIFICATIONS             | UNIT        | RANGE                     |
|----------------------------|-------------|---------------------------|
| Apparent Power Output      | kVA         | 9 / 18 / 27 / 36          |
| Real Power Output          | kW          | 7.2 / 14.4 / 21.6 / 28.8  |
| Peak Apparent Power Output |             | 11.25 / 22.5 / 33.75 / 45 |
| Peak Real Power Output     | kW (15 sec) | 9 / 18 / 27 / 36          |
| Rated Output Voltage       | V           | 400/415                   |
| Frequency                  | Hz          | 50                        |
| Phase                      |             | 3                         |
| Max Integrated Solar       | kW          | 21kW (DC) 31kW (DC PV)    |
| Gen Input Power            | Amps        | 100                       |
| Max Power in Bypass        | Amps        | 100                       |
| Max System Energy Capacity | kWh         | 81                        |
| Battery Type               |             | LiFePO4                   |
| Nominal DC Voltage         | V           | 51,2                      |
| Battery Cycles             |             | >5000                     |
| Discharge Depth            | %           | 90                        |
| Operating Altitude         | M           | 2000                      |
| Operating Temperature      | °C          | -20 to +50                |
| IP Rating                  | IPxx        | IP55 / IP56 Dual Zone     |

| MPPT FEATURES                      | 6 (DEFAULT 2)  |
|------------------------------------|----------------|
| Nominal Charge Power               | 3456W per MPPT |
| Max PV Short Circuit Current (ISC) | +50%           |
| PV Array Oversizing Support        | 600 V          |
| Max PV Input Voltage (VOC)         | 14 A           |
| Max PV Input Current (IMP)         | 20 A           |
| PP Voltage Range                   | 170- 500 V     |



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| Communications             | 4G /Wi-Fi / Satellite                                                                                                                                                                                                                                                                                 |     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Cloud Monitoring Platform  | Options Available                                                                                                                                                                                                                                                                                     |     |
| Equipment Standards        | IEC 62619:2022<br>IEC 62109-1:2010<br>IEC62109-2:2010<br>IEC62040-1:2017<br>UN38.3                                                                                                                                                                                                                    |     |
| Integrated Solar           | Conforms to:<br>AS/NZS 3000:2018<br>AS/NZS 5139:2019<br>AS/NZS 4509.1:2009                                                                                                                                                                                                                            |     |
| Clean Energy Council (CEC) | CEC Listed<br>• Battery Inverter<br>• Solar Inverter                                                                                                                                                                                                                                                  |     |
| BENEFITS                   | SPECIFICATIONS                                                                                                                                                                                                                                                                                        |     |
| Safety & Protection        | AC Short Circuit Protection<br>AC Output Over Current Protection<br>AC Output Over Voltage Protection<br>DC Output Over Current Protection<br>Over Temperature Protection & AirCon<br>Active Battery Monitoring Module & BMS                                                                          |     |
| Built to Endure            | Thermal Insulation<br>Durable Powder Coat Enclosure<br>Insulated Air Conditioning<br>Integrated Lifting Points & Forklift Points<br>Lockable Doors                                                                                                                                                    |     |
| Smart Intelligence         | Power Management/Control System<br>Quiet at Night Mode Settings<br>Peak Shaving & Load Shedding Support<br>Redundant Inverter Architecture for Improved Resilience<br>Human-Machine Interface (HMI) w/ 2.4 LCD screen<br>8 Port Network Switch<br>Remote Cloud Based Monitoring w/ Push Notifications |     |
| MPPT                       | PV Reverse Polarity Protection                                                                                                                                                                                                                                                                        | Yes |
|                            | Earth Leakage Current Detection                                                                                                                                                                                                                                                                       | Yes |
|                            | Max Conversion Efficiency                                                                                                                                                                                                                                                                             | 96% |



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