



PowerCore

SPS90

63 - 90 kVA 100 - 150 kWh

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 / Micro-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 Fronius Tauro 100-3-D / SMA Core 100
- Complete system monitoring including Solar, Battery, Generator, Switch gear with support for external devices.
- Latest modular inverter with smart generator control.

Strong

- Hot Dip Galvanised Base.
- Rugged, air-conditioned enclosure with thermal insulation
- Durable powder coating.
- IP55/IP56 Dual Zone rating.

Simple Install

- Scalable battery system for easy expansion.
- Galvanised heavy duty base for hassle free location.
- Simple maintenance.
- Fast site commissioning.



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

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POWERCORE SPS90

SPECIFICATIONS	UNIT	RANGE
Apparent Power Output	kVA	63 / 72 / 81 / 90
Real Power Output	kW	50.4 / 57.6 / 64.8 / 72
Peak Apparent Power Output	kVA (15 sec)	78.75 / 90 / 101.25 / 112.5
Peak Real Power Output	kW (15 sec)	65.6 / 75 / 84.37 / 93.75
Rated Output Voltage	V	400/415
Frequency	Hz	50
Phase		3
Gen Input Power	Amps	140
Max Power in Bypass	kVA	140
Max System Energy Capacity (Nominal)	kWh	98 / 124 / 149
Battery Type		LiFePO4
Nominal DC Voltage	V	336
Battery Cycles		>5000
Discharge Depth	%	90
Operating Altitude	M	2000
Operating Temperature	°C	-20 to +50
IP Rating	IPxx	IP55 / IP56 Dual Zone

REMOTE AREA POWER SYSTEM

Power Type	Three Phase
Max System Energy Capacity	90kVA
Max Power	149kWh
Integrated Solar	50kW / 100kW / 110kW

SPECIFICATIONS	RANGE
Communications	4G / Wi-Fi / Satellite
Cloud Monitoring Platform	CogniCD
Equipment Standards	IEC 62619:2017 IEC 62109-1:2010 IEC62109-2:2010 IEC 62040-1:2017 AS/NZS 4777.2:2018 (AC Coupled Solar)
System level standards	Conforms to: AS/NZS 3000:2018 AS/NZS 5139:2019 AS/NZS 4509.1:2009
Clean Energy Council	Battery Inverter Solar Inverter MPPT

SYSTEM DIMENSIONS

SPECIFICATIONS	UNIT	RANGE
Length Approx.	mm	3033
Width	mm	1109
Height	mm	2295
Weight Est	kg	1700 to 3000

BENEFITS	SPECIFICATIONS	
Safety & Protection	<ul style="list-style-type: none"> AC Type II surge protection AC Short circuit protection AC Output over current protection AC Outtput over voltage protection DC Over current protection Over temperature protection & AirCon Monitoring PV Type II Surge & lightning protection Smoke / Heat Alarms Active Battery Module Monitoring and BMS 	PLC based SwitchGear Position <ul style="list-style-type: none"> Solar input open / close Power inverter Input open / close Customer supply (load) open / close Manual transfer switch (Gen, Off, Bypass) Battery bus DC isolator open / close AC BUS Input isolator open / close AC BUS Output isolator open / close Generator input open / closed

BENEFITS	SPECIFICATIONS	
Built to Endure	<ul style="list-style-type: none"> Galvanised heavy duty steel base frame External sun shielding Canopy heavy duty steel Dual Zone climate protection (Fan/Air Conditioning) 	<ul style="list-style-type: none"> Durable Powder Coat enclosure Fully redundant inverter architecture Integrated forklift pockets Lockable doors
Smart Intelligence	<ul style="list-style-type: none"> Power Management and Control System for Grid/Diesel with Engine Minimisation. Quiet Mode for Night Settings. Peak Shaving and Load Shedding Support Communications System featuring a 4G/Wi-Fi Industrial Router (Satellite Compatible). Human-Machine Interface (HMI) with a 7" LCD Display Screen. Dedicated Antenna Mounting Point. 8-Port Network Switch for Expanded Connectivity. Remote Cloud-Based Monitoring with Alarm Push Notifications. 	
Solar Inverter	<ul style="list-style-type: none"> Integrated AC Coupled Solar Fronius Tauro Eco 50 / 100 SMA Sunny TriPower Core 2 110 	
External Auxillary Devices	<p>Auxiliary Supply Circuit (Gen Battery Charger)</p> <p>ComAp Gen - set Controller</p> <ul style="list-style-type: none"> AMF 2 INTELLISYS MRS11 <p>DeepSea Genset Controller</p> <ul style="list-style-type: none"> DSE7410 MKII DSE7310 MKII DSE8610 MKII <p>Sices (Meccalte) Genset Controller</p> <ul style="list-style-type: none"> GC600 <p>Crompton Power Meter (Consumer Load Monitoring)</p> <ul style="list-style-type: none"> CLCINT1222S010 <p>Fuel Usage Monitoring</p> <ul style="list-style-type: none"> Macnought - DFM 500 HP D485 	