

REMOTE AREA POWER STATION

MODEL GABC SP3000



Remote Area Power Station

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The GABC SP3000 unit has a Selectronics inverter/charger that will produce 3KW or 13 Amps continuous to supply any AC load which requires a pure sine wave input.

The 830Ah batteries will keep the supply running for 23 Hours at full load approx. if there is no input power (Night time load)

During the day the 4.5kw of solar panels on the roof of the container will produce power to supply the load and charge the batteries.

If in the event that the batteries become low (due to excessive cloudy weather for a long period of time) or the load becomes higher than what the inverter is rated for the auto generator starter will start the generator to supply the load and charge the batteries at the same time and then shut off automatically when the conditions become within operating limits. This will prolong the batteries life and to give a more reliable supply.

The unit is also transportable on a tilt tray, due to the panels that fold flat to the container wall, for transport. Another feature of the GABC SP3000 is the storage space inside the container making it ideal for job site storage or an office.

Other sizes and configurations can be customised depending on location and load requirements, they can be designed by us to meet your remote power requirements.

Battery Specifications

Manufacturer – Energystore (made in Germany)

Model – 2RPG830

Voltage – 2 Volts

Battery Type – Sealed Gel

Ah Rating – 830Ah @ C100 (8.3 Amps continuous for 50 Hours) 50% DOD

650Ah @ C10 (65 Amps Continuous for 5 Hours) 50% DOD

Battery Autonomy – 3 Days @ C100 Rating.

Battery life – 4000 Cycles @ 30% DOD C100

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Panel Specifications

Manufacturer – Phono Premium

Rating – Tier 1

Fire Performance – Type 1

Model – PS380P-20/U

Capacity – 380 Watts Each (4500 Watts Total)

Production Average – 28 KWH per day @ 6.4 Peak Sun Hours

Efficiency – 16.9%

Warranty – 25 Year Performance

Inverter/ Charger

Manufacturer – Selectronics SP Pro

Model – SPMC240-AU

DC Voltage – 24 Volts

Output Power – 3000 Watts Continuous

4200 Watts for 30 Minutes

7500 Watts for 5 Seconds

Output Waveform – True Sine

Efficiency – 92%

Output Current on Charger – 90 Amps

Charging Stages – Bulk, Absorption and Float

Warranty – 5 Years

Charge Controller

Manufacturer – ABB ONO

Model – UNO-DM-5.0-TL-PLUS

DC Voltage – 24 Volt

PV Array Max Voltage – 600 Volts

Max Charge Current – 60 Amps

Efficiency – 96%

Warranty – 5 Years

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Generator

Manufacturer – Able

Model – LP7K1

Prime Power – 6KVA 240 Volts 25 Amps

Engine – 13HP Yanmar

RPM – 3000/Min

Noise Level – 67dBA @ 7 Meters

Chassis Enclosure – Silenced

Weather Resistant

Mine Site Ready – Yes

Fuel Tank Capacity – 25 Litres

Running Time – 20-22 Hours

Fuel Consumption – 1.1 Litres Per Hour

Warranty – 1 Year

Optional Extras

Solar analytics for energy consumption monitoring

Security systems

Security lighting

Air conditioning

Pre lined walls

Shelving

PLC controlled

Larger Fuel Tank For Generator

Generator Capacity Upgrade

Various colours premium paints

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