

3 phase 15-40kW



robust powder coated zinc anneal housing



Inkerman Project Ergon Energy Co

power solutions australia

Grid Interactive Inverters provide a means of directly connecting dc renewable sources such as solar photovoltaic arrays and small wind turbines to the electricity grid. Grid connection ensures that all renewable energy generated can be utilised. Surplus energy not used locally is exported to the grid to other electricity users. Batteries provide reliable power when grid supply fails. Systems with batteries can operate in one of several configurations:

- Without local load input, the inverter starts and synchronises to the grid when renewable input becomes available and shuts down when renewables are too small to justify operation. This is useful to interface a wind turbine to the grid where the battery provides buffer storage against wind gusts and limits maximum DC input.
- With local load supplied from the grid during normal operation. If the grid fails the inverter disconnects and local load can be supplied from the battery.
- With local load supplied from the grid and renewables during normal operation. If the renewables exceed local load, excess power is exported, if they are less than local load the shortage will be supplied from the grid. If the grid fails the inverter disconnects from the grid, local load can be supplied from the battery and from renewable input. The battery will discharge if renewables are less than local load and be charged when they exceed local load.



Specifications 3Φ 15-40kW

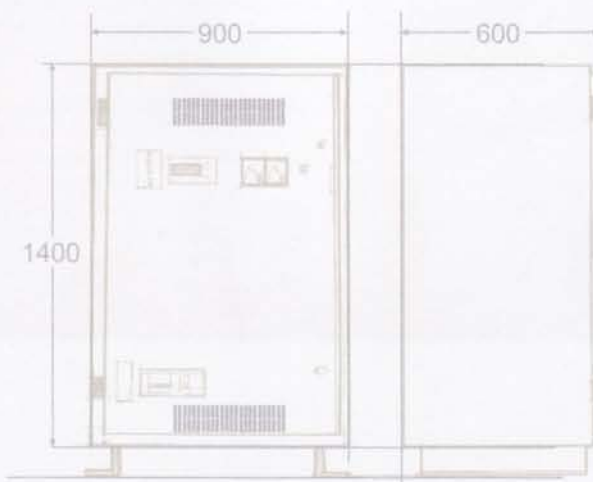
Model

	SGB-15-48	SGB-15-108 SGB-15-120	SGB-20-108 SGB-20-120	SGB-25-108 SGB-25-120	SGB-30-108 SGB-30-120	SGB-40-120
Input voltages	48VDC	108/120VDC	108/120VDC	108/120VDC	108/120VDC	120VDC
Continuous output @40C	15kW	15kW	20kW	25kW	30kW	40kW
½ hour @ 40C ambient	19.5kW	19.5kW	26kW	32.5kW	39kW	52kW
1 hour 40C ambient	18kW	18kW	24kW	30kW	36kW	48kW
Surge	30kW	30kW	40kW	50kW	60kW	80kW
Maximum charge current	250A	120A	150A	200A	250A	300A
Peak efficiency	>91%	>93%	>93%	>93%	>93%	>93%
Power factor range	0-1	0-1	0-1	0-1	0-1	0-1
Total harmonic distortion	<4%	<4%	<4%	<4%	<4%	<4%
Idle power	<150W	<150W	<200W	<250W	<300W	400W
Output isolation AC/DC	cct breaker	cct breaker	cct breaker	cct breaker	cct breaker	cct breaker
Indicators	LED & LCD	LED & LCD	LED & LCD	LED & LCD	LED & LCD	LED & LCD
Weight Kg	210 Kg	290 Kg	310 Kg	330 Kg	350 Kg	390 Kg
Internal AC contactor	yes	yes	yes	no	no	no

Common to all units

- Automatic Bypass: Supply maintained by generator automatically if the inverter is off-line.
- Operating DC voltage 92% to 130% of nominal.
- Low Distortion, high power load presented to generator during charging for best generator performance.
- Data Logging Remote Access: RS232 port, Standard data logging and remote access via modem, satellite, GSM, and CDMA technology.
- All units available in 220/230/240 VAC 50Hz or 60Hz output (240/415, 230/380, three phase plus neutral connection), 120/208 VAC on application.
- Cooling: Convection and thermostatically controlled fans.
- Enclosures: Electronics IP50, transformer and heatsink IP23. Weatherproof enclosures or rack mounting are available on request.
- Protection: Over current trip, over voltage, over temperature, reverse polarity, fast electronic trip, transient over voltage protection.

Standards: All Inverters are designed to AS3100/AS2604/AS61000.3.5 and the draft AS/NZ standard for grid connected inverters. Refer to sales staff for details of compliance.



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