

RAPS

**generator interactive
sine wave inverter charger**

3 phase 15-40kW



robust powder coated zinc anneal housing



Ecco Energy System railway bore, Central Australia

power solutions australia Generator Interactive Inverters provide mains quality power efficiently and automatically. The system uses batteries to store energy for periods when power demand is low and automatically starts a diesel generator set when demand is high or when the batteries require recharging.

This mode of operation ensures that diesel fuel is efficiently converted to electricity by only running the generator at medium to heavy loads and only for a small proportion of the day. Power is drawn from the batteries and converted to a mains quality sine wave by a micro processor controlled inverter. While the generator is operating it supplies power to the load and the inverter charges the batteries. However if heavy loads occur both the inverter and the generator can supply the load giving a peak capacity equal to the sum of the inverter and generator ratings. This allows smaller generators to be used compared with inverter charger systems.

An alpha numeric LCD display allows inverter variables to be displayed and allows suitably qualified technicians to adjust operating parameters to optimise system performance.

power solutions australia
state of the art



Specifications 3Φ 15-40kW

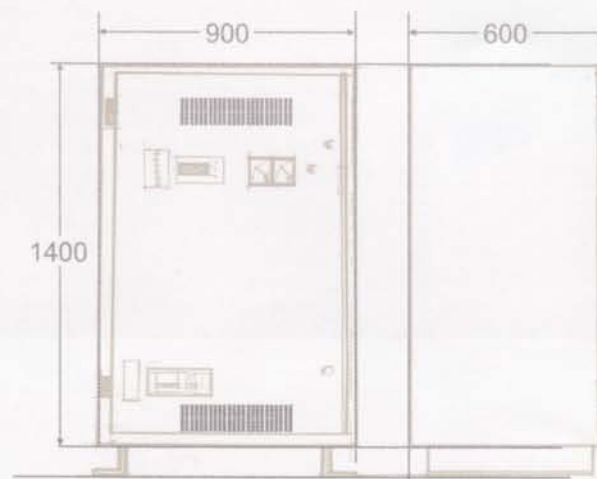
Model

	RAP-15-48	RAP-15-108 RAP-15-120	RAP-20-108 RAP-20-120	RAP-25-108 RAP-25-120	RAP-30-108 RAP-30-120	RAP-40-120
Input voltages	48VDC	108/120VDC	108/120VDC	108/120VDC	108/120VDC	120VDC
Operating dc voltage range	44-62VDC	100-158VDC	100-158VDC	100-158VDC	100-158VDC	100-158VDC
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
Idle power	<150W	<150W	<200W	<250W	<300W	<400W
Integrated 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 Gen contactor	no	<30 kVA	<30 kVA	no	no	no
External Gen contactor	required	optional	optional	required	required	required

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.
- All units available in 220/230/240VAC 50 or 60Hz output (240/415, 230/380V three phase plus neutral connection), 120/208VAC on app.
- Data Logging Remote Access: RS232 port, standard data logging and remote access via modem, satellite, GSM, and CDMA technology.
- 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. Low distortion, high power load presented to generator during charging for best generator performance. Refer to sales staff for details of applicable compliance testing.



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