

RAPS

generator interactive
sine wave inverter charger

3-5 kW



ralway born, Blakesville Central Australia



robust powder coated zinc anneal housing

The **power solutions australia** Generator Interactive Inverter System provides mains quality power efficiently and automatically. It 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 charge 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

3-5 kW

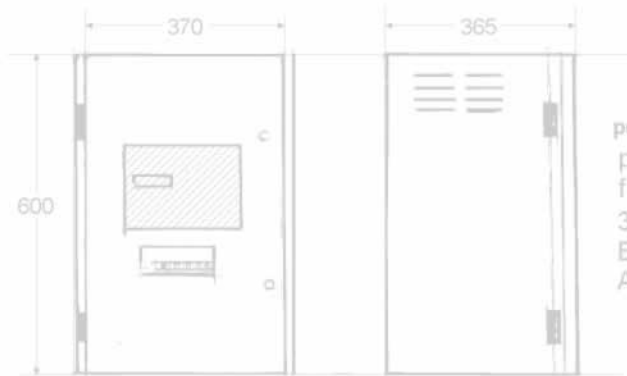
Model

	RAPS-3-24-1	RAPS-3-48-1	RAPS-5-48	RAPS-5-120
Input voltages available	24 VDC	48 VDC	48 VDC	120 VDC
Operating DC Voltage range	22-31.5	44-63	44-63	98-158
Output voltage and frequency	240V 50/60	240V 50/60	240V 50/60	240V 50/60
Continuous output @40C	2.7kW	3kW	5kW	5kW
½ hour @ 40C ambient	3.5kW	3.9kW	6.5kW	6.5kW
1 hour @40C ambient	3.2kW	3.6kW	6kW	6kW
Surge	5.4kW	6kW	10kW	10kW
Maximum charge current	90A	35A	83A	35A
Peak efficiency/	>94%	>94%	>94%	>94%
Power factor range	0-1	0-1	0-1	0-1
Idle power	35W	35W	50W	50W
Standby	>10W	>10W	>15W	>15W
Integrated output isolation	cct breaker	cct breaker	cct breaker	cct breaker
Indicators	LED & LCD	LED & LCD	LED & LCD	LED & LCD
Weight Kg	70 Kg	70 Kg	70 Kg	70 Kg
Internal Gen. contactor	20 kVA	20 kVA	20 kVA	20 kVA
External Gen. contactor	optional	optional	optional	optional

Common to all units

- Automatic Bypass: All load supply maintained by generator automatically if the inverter is off-line.
- Data Logging Remote Access: 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.



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