

RAPS

**generator interactive
sine wave inverter charger**

15-40kW



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 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



Model

Input voltages available
Continuous output @40C
½ hour @ 40C ambient
1 hour 40C ambient
Surge
Maximum charge current
Peak efficiency/
Power factor range
Total harmonic distortion
Idle power
Standby
Autostart on demand
Minimum start load
Output isolation
Indicators
Weight Kg
Cooling
Data Logging
Internal/DC cct breaker
Internal Gen contactor
External Gen contactor
Remote access RS232

RAPS-15-120	RAPS-20-110	RAPS-25-110	RAPS-30-110	RAPS-40-110
120VDC	110/120VDC	110/120VDC	110/120VDC	110/120VDC
15kW	20kW	25kW	30kW	40kW
19.5kW	26kW	32.5kW	39kW	52kW
18kW	24kW	30kW	36kW	48kW
30kW	40kW	50kW	60kW	80kW
70-80A				
>93%	>93%	>93%	>93%	>93%
0-1	0-1	0-1	0-1	0-1
<4%	<4%	<4%	<4%	<4%
96W	110W	110W	110W	110W
30W	36W	36W	36W	36W
yes	yes	yes	yes	yes
12 to 15W	12 to 15W	12 to 15W	12 to 15W	12 to 15W
cct breaker	cct breaker	cct breaker	cct breaker	cct breaker
LED & LCD	LED & LCD	LED & LCD	LED & LCD	LED & LCD
160 Kg	160 Kg	160 Kg	210 Kg	210 Kg
5 x fans	5 x fans	5 x fans	5 x fans	5 x fans
yes	yes	yes	yes	yes
yes	yes	yes	yes	yes
20 kVA	20 kVA	20 kVA	20 kVA	20 kVA
>20 kVA	>20 kVA	>20 kVA	>20 kVA	>20 kVA
yes	yes	yes	yes	yes

Common to all units

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



power solutions australia
p. 61 3 9762 0757
f. 61 3 9762 0715
3/6 Holloway Drive,
Bayswater, Victoria
Australia 3153

