

AC Coupled Inverter by LuxPower

High Performance

Up to 70A Charge/Discharge current and 3600W Charge/Discharge power.

Enhanced UPS

Doesn't lose power when the grid powers down with seamless switching within 0.01s.

Easy To Use

Schedulable working modes and easy installation due to its slim design and light weight.



Remote Monitoring and Maintenance

Monitor and easily update the system via a free desktop application that connects directly to the unit.

High IP Rating

IP65 rating protects from dust, oil, non-corrosive material and water for outdoor and indoor installation.

Safe Operation

Protected connection area with multiple protection devices to assist with operation and installation.

Compatible With Lithium, Gel And Lead Acid Batteries

The Spectrum Difference

The Spectrum AC Coupled Inverter by LuxPower is an innovative solar and energy storage solution that can be retrofitted to an existing on-grid system to increase energy efficiency. Perfect for existing systems, the Spectrum AC Inverter implements a programmable and schedulable system to help increase the rate of solar energy consumption, protect household appliances from grid shortage and balance energy usage.

Optimised Modes

Self Consumption

Energy generated by PV will be mainly used for local loads and the rest will be stored with excessive power fed back in to the grid, reducing the energy bill significantly.

Time Of Use

Take advantage of time sensitive tariffs and choose when charging/discharging should happen. The user can also choose whether to charge the battery using grid power if regulations permit.

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Spectrum AC Coupled Inverter Specifications

Battery Input/Output		AC Input/Output	
Compatible Battery Type	Li-Ion/Lead-Acid etc.	Nominal AC Output Power to Utility	3600VA
Nominal Battery Voltage	48V DC	Max. AC Output Power to Utility	3600VA
Max. Charging Voltage	<=60V(Configurable)	Max. AC Input Power from Utility	5980VA
Max. Charge/Discharge Current	70A/70A	Max. AC Output Current to Utility	16A
Battery Capacity	>100Ah	Max. AC Input Current from Utility	26A
Charging Mode Li-Ion	Self-adaption to BMS	Nominal Output Voltage	220/230V AC
Charging Lead-acid	3-stage adaptive w maintenance	AC Voltage Range	180 - 270V AC
Battery Back Feed Current	0A	Nominal AC Frequency	50Hz/60Hz
		AC Over Current Protection	31A
		Power Factor	1 (adjustable 0.8leading - 0.8 lagging)
		THDI	<3%
		AC Over Voltage Category	Category III

UPS Output - with Battery		Protection		General Data	
Max Output Power	3600VA	Reverse Polarity Protection	Yes	Dimension (W/H/D)	565 / 324 / 171
Nominal Output Voltage	230V AC	Over Current/Voltage Protection	Yes	Weight	15.6kg
Nominal Output Frequency	50Hz/60Hz	Anti-islanding Protection	Yes	Topology	HF
Max. Output Current	16A	AC Short-circuit Protection	Yes	Cooling Concept	Natural Convection
Peak Power	4500VA, 30s	Leakage Current Protection	Yes	Relatively Humidity	100%
THDV (linear load)	<3%	Ground Fault Monitoring	Yes	Altitude	<2000m
Switching Time	Typical 0.01s	Grid Monitoring	Yes	Noise Emission	<25dB
Back-up Over Current Protection	31A	Ingress Protection Degree	IP65/NEMA4X	Standby Consumption	<5W
				Display & Communication Interfaces	LCD, LED, RS485, Wi-Fi, CAN

Efficiency		Certification & Approvals	
Max. Charge/Discharge Efficiency	96%	G83, G100, CE	
		EN61000-6-3, CEC Accredited	

Are you looking for a hybrid inverter?
Contact PHB on 0400 864 840 or admin@phbatteries.com.au for prices and availability.

