

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.

AC Coupled Inverter by LuxPower

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 SPB on 1300 001 772 or sales@spb.net.au for prices and availability.

