RDF
Lighting-Power-Control

BPC ENERGY

PowerPro™ Single Phase EL100 Range
RDF-EL100XA Series 500VA to 3kVA

The PowerPro EL ranges are Static Inverter Systems designed for RDF and manufactured by BPC in the UK specifically for emergency lighting applications according to European BS EN50171, EN50272-2, BS 5266 and ICEL 1009.

- **Escape route lighting**
- **Open area lighting**
- **High risk task area lighting**

FEATURES

- A compact series of UK manufactured single phase input and output 230V AC static inverters ranging from 500VA to 3kVA
- Inverter, batteries and output circuit distribution in a single wall mount / floor mount enclosure
- Built-in distribution panel (6x standard)
- Industrial rated VRSLA batteries, designed for 12 year life
- Multiple options including inrush protection for LED lighting, integral fire suppression, DALI control interface, maintenance bypass and non-maintained operation
- Fully compliant to EN 50171 for emergency lighting applications
- True sinewave & PWM microprocessor controlled technology
- System and battery test function
- DC short circuit protection
- Recharges batteries up to 80% within 12 hours
- Fast changeover to battery backup mode
- LCD panel providing accurate, detailed information about load, batteries, system diagnostics and audible alarm
- Remote test and monitoring of alarms via dry contacts or RS232
- Deep discharge protection of the batteries

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Single Phase Input & Output Static Inverter

MODEL	SI-Pro-Mini	SI-Pro-Midi	SI-Pro-Maxi
Power Rating VA / Watts	500 / 400	1250 / 1000	3000 / 2400
INPUT			
Nominal Voltage	230 Vac (1Ph + N + PE)		
Voltage Range	184 V – 285 V		
Frequency Range	50 Hz ±5%		
OUTPUT			
Nominal Voltage	230 Vac		
AC Voltage Regulation (Battery Mode)	±3%		
Frequency Range (Battery Mode)	±1%		
Power Factor	0.8		
Crest Factor	3:1		
Harmonic Distortion (Linear Load)	<5%		
Transfer Time	0.5secs		
Waveform	Sinewave		
Load Circuits	Single output or up to 6 outputs optional		
Overload	150% 1min / 120% Continuous		
Mode Operation	Changeover		
Maintained / Non-Maintained	Maintained (standard) / Non-Maintained (optional)		
BATTERY			
Battery Type	VRLA AGM Sealed Lead Acid Maintenance Free Batteries are standard, Nickel Cadmium Batteries / Planté Batteries are optional		
End of Life to En50171	Included		
Charge Battery to 80% within 12 hours	Included		
Deep Discharge Protection	Included		
DC Earth Leakage	Optional		
LIGHTING CONTROL INTERFACE			
External Mains Fail Test Connection	Optional		
Non-Maintained Mode Connection**	Optional		
FAR Connection **	Optional		
External Phase Fail Connection **	Optional		
24 Vdc Supply for External Contactor	Optional		
KNX / DALI / NODE Interface	Optional		
Mains Fail Test Button	Key switch included		
Volt Free Contacts	3		
GENERAL			
Operating Temperature	0°C - 40°C / <1000m above sea level		
Operating Humidity	5 - 95% non-condensing		
Acoustic Noise	<56 dB @ 1 metre		
Protection Degree	IP21		
Dimensions(mm) WxDxH (Inverter only)	750 x 250 x 850	750 x 250 x 1250	750 x 400 x 1250
Net Weight (kgs)	Dependent on battery configuration		

RDF SI-Pro Mini, Midi, Maxi

Single Phase Input & Output Static Inverter

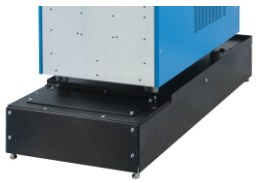
Options and Accessories

- **Remote Alarm Panel** – External panel for monitoring the Static Inverter.

- **Output Distribution** – Internal distribution of the lighting circuits is standard, multiple output options available including single output and inrush current protection from LED lighting loads.
- **Maintenance Bypass Panel** – to provide flexibility during maintenance, service and/or repairs to the equipment. The bypass can ensure that the system is isolated from the critical load whilst work can be carried out.

- **Integral Fire Suppression** - Temperature sensitive fast acting integral fire suppression aerosol system to suppress or extinguish any fire for internal component protection and to extend system operation for critical loads during building escape due to fire
- **Phase Failure Monitoring** – Factory fitted relays to ensure that the system monitors all three phases. Failure of any phase activates the emergency lights.
- **Sub-Circuit Monitoring** – Factory fitted relays monitor external lighting circuits, if any of the external circuits fail the emergency lights are activated.
- **Lighting Control Interface** – Allows communication via a node/module to the testing and monitoring systems.

- **Fire Alarm Monitoring** – An alarm condition from the fire alarm panel will activate the emergency lights.
- **Night-Watchman Switch** – Enables switching of the emergency lights from a remote location, fail safe in an emergency condition.
- **Light Switch Control Relay** – Enables individual circuits to be controlled externally, fail safe in an emergency condition.
- **Timer Control** – Solar dials or 24hr timers can be used to activate the non-maintained contactor.
- **Earth Fault Alarm** – Monitoring of battery positive and negative for earth leakage.



- **Plinth** – For sites that are using SWA cables, a plinth may be required to raise the unit off the floor and allow the cables to be easily installed.

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