



SIRIUS P UPS SYSTEM



From **100 to 250Kva**

- > *Online Double Conversion (VFI)*
- > *Low Impact on Mains Supply*
- > *Parallel Capability for up to 8 units*
- > *"Hot System Expansion" facility*
- > *Four Configurable Operating Modes*
- > *Power "Walk-in" & "Delay" features*
- > *Output Isolation Transformer*
- > *Dual Input Supply as standard*
- > *'Back to Wall' installation*
- > *Variety of Remote Comms options*

The 'Sirius P' incorporates the proven microprocessor control and reliability of the Inverter section in our original Sirius products coupled to a new Power Factor Corrected IGBT rectifier to provide an input **PF >0.99** and **THDi <4** as standard

The **Benefits...**

High input performance helps reduce running costs and enables mains supply, cabling and associated switchgear to be downsized without any de-rating of output power. The 'Sirius P' helps to ensure that site conditions remain within the recommendations of **G5/4** and also provides the sensible choice for combined UPS & Generator packages.

High **Reliability...**

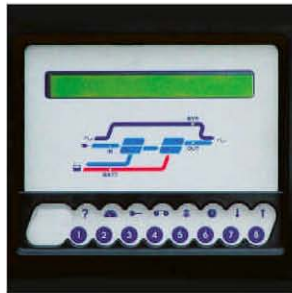
Battery management is an extremely important part of any UPS system and a number of facilities are incorporated including **manual/automatic battery test** facilities and **deep discharge protection** ensuring that your system is always available.

Parallel Systems...

For even higher levels of integrity these units offer a '**plug & play - auto configuration**' parallel capability (up to 8 units) to increase system resilience or increase load capacity. Additional UPS modules can be incorporated into the system at a later date with the "**Hot System Expansion**" facility allowing the existing units to remain online to support the load.

Remote *Monitoring...*

An LCD Remote Panel is available providing operating status, measurement values and alarm conditions at a chosen location up to a maximum of 300m from the UPS. Alternatively the computer network can be utilised with our NetMAN card to provide full UPS monitoring via a web-browser with the facilities to send alarms via email, SMS, SNMP or to an existing BMS.



UPS *Display...*

The 'Sirius P' UPS incorporates a user friendly, multi-language alphanumeric display. Full system operating status, alarm conditions, measurement values can be displayed and are automatically stored into an events memory providing a history of up to a maximum of 120 entries.

Technical Specification *Sirius P*

UPS Power (kVA)	100	120	160	200	250
Active Power (kW)	80	96	128	160	200
Dimensions (mm)	1900h x 800w x 850d		1900h x 1000w x 850d		
Weight (kg)	650	700	800	910	1000
Efficiency (AC - AC)	>93% (50% to 100% load, online) 98% (eco mode)				
Heat Dissipation (kW)	6.0	7.2	8.9	11.1	13.9
Audible Noise (dB)	<65 (@ 1m)		<68 (@ 1m)		
Ambient Temperature (°C)	0 - 40 (batteries 25°C optimum)				
Design Standards	EN50091-2, EN62040-1, 2 & 3				

Input

Nominal Input Volts (Vac)	400 (-10% / +20%)				
Input Current (Nom / Max)	126/145	151/176	200/229	250/288	312/359
Input Frequency (Hz)	50 - 60 (+/- 5%)				
Input Power Factor	>0.99 (25-100% load, battery fully charged)				
Input Harmonic Distortion	<3% (full load @ 400v with mains distortion <2%)				

Output

Nominal Output Volts (Vac)	380 - 415 (adjustable)				
Output Current (0.8pf/1.0pf)	145/115	180/145	230/185	290/230	360/290
Output Frequency (Hz)	50 or 60 (configurable)				
Inverter Overload Capability	110% for 60' 125% for 10' 150% for 1' 200% for 7"				
Output Harmonic Distortion	<2% (linear load) <3% (non-linear load)				
Crest Factor (non linear)	3 : 1				

Standard Features

Power Factor Corrected Rectifier	Backfeed Protection
Online Double Conversion using IGBT	RS232 and 2 x Communication Slots
Integral Static and Manual Bypass Switch	User friendly, menu driven mimic
Automatic and Manual Battery Test Facilities	Compact with 'Back to Wall' Installation
	Design Standards EN50091-2, EN62040-1, 2 & 3

Options

Wall mounted / Floor Standing Maintenance Bypass Switch (**Recommended**)
 Parallel Cards for higher capacity systems or N+1 redundancy (8 units max)
 Top Entry Cable Chamber (100-200kVA +270w, 250kVA +400w)
 UPS Group Synchroniser (UGS)
 Bypass Isolation Transformer
 Remote Panel with LCD Screen and Audible Alarm
 SNMP Network Card / Relay Contact Device (240v)