



- True On-Line UPS
- Complete UPS Cabinet
- Single / Dual Mains Input Option
- Internal Maintenance Bypass Switch Option
- LCD Load Segment Control 2.5 kVA & 3.0 kVA
- Optional 10 Year Batteries

Specification

Input

Input Voltage (full load without using battery)	<ul style="list-style-type: none"> • 115 VAC version, 80-138 V • 208 VAC version, 176-276 V • 230 VAC version, 176-276 V
Input Frequency	<ul style="list-style-type: none"> • 46-64 Hz
Input Power Factor	<ul style="list-style-type: none"> • <0.98 at full load
Input Protection	<ul style="list-style-type: none"> • Fuse/Breaker

Output

Output Voltage	<ul style="list-style-type: none"> • 115 VAC nominal - 100/110/115/120 VAC selectable • 208 VAC nominal - 208/220/230/240 VAC selectable • 230 VAC nominal - 208/220/230/240 VAC selectable
Output Regulation	<ul style="list-style-type: none"> • $\pm 2\%$ of nominal
Output Waveform	<ul style="list-style-type: none"> • Sine wave
Output THD	<ul style="list-style-type: none"> • <3%, linear load
Crest Factor	<ul style="list-style-type: none"> • 3:1
Output Protection	<ul style="list-style-type: none"> • Electronic overload protection (ultimately by fuse/breaker)
Efficiency (AC-AC)	<ul style="list-style-type: none"> • 86% up to 1.5 kVA, 90% up to 6.0 kVA
Overload Capacity	<ul style="list-style-type: none"> • See Xi Datasheet
Output Frequency	<ul style="list-style-type: none"> • 50/60 Hz dependent on input

Battery

Internal Battery Type	<ul style="list-style-type: none"> • VRLA 5 year design life standard, 10 year design life option available
Battery Replacement	<ul style="list-style-type: none"> • Hot-swap all models
Recharge	<ul style="list-style-type: none"> • <4 hours to 90%, standard battery only
Battery String Voltage	<ul style="list-style-type: none"> • 48 VDC: 1.5 kVA • 96 VDC: 2.5-3.0 kVA • 192 VDC: 4.0-6.0 kVA
Autonomy	<ul style="list-style-type: none"> • See Xi Datasheet
Temperature	<ul style="list-style-type: none"> • Autonomy, recharge and battery life based on +25 °C ambient

General

Input/Output Terminals	<ul style="list-style-type: none"> • Suitable for cable up to 10 mm²
Display/Alarm	<ul style="list-style-type: none"> • Front panel LCD menu driven, audible alarms. See System Layout
Interface	<ul style="list-style-type: none"> • VFC Standard (AS400) providing remote indication of: UPS AC Input OK/ UPS AC Input
Failure	<ul style="list-style-type: none"> • Battery OK/ Battery Low UPS OK/ UPS Alarm On Inverter /UPS Bypassed RS232 or USB option available
REPO	<ul style="list-style-type: none"> • Remote emergency power off, must be fitted for unit to function. Remove link to shut down output in AC mode or shut down unit in battery mode
Mechanical (h x w x d)	<ul style="list-style-type: none"> • Small - 1200 mm x 600 mm x 800 mm • Medium - 1700 mm x 600mm x 800 mm • Large - 2100 mm x 600 mm x 800 mm • Bottom entry as standard • Front & rear lockable access (standard system requires rear access)

Environmental

Operating Temperature	<ul style="list-style-type: none"> • 0 °C to +40 °C
Storage Temperature	<ul style="list-style-type: none"> • -15 °C to +50 °C
Cooling	<ul style="list-style-type: none"> • Fan assisted cooling fitted to all cabinets as standard
Operating Humidity	<ul style="list-style-type: none"> • 0-95% RH, non-condensing
Operating Altitude	<ul style="list-style-type: none"> • 3000 metres without derating
Acoustic Noise	<ul style="list-style-type: none"> • <45 dBA at 1 metre
Ingress Protection	<ul style="list-style-type: none"> • Options from IP21 - IP54

EMC & Safety

Emissions	<ul style="list-style-type: none"> • EN55022 level B, EN50091-2, level B, FCC Class B
ESD Immunity	<ul style="list-style-type: none"> • EN61000-4-2, level 3
Radiated Immunity	<ul style="list-style-type: none"> • EN61000-4-3, level 2
EFT/Burst	<ul style="list-style-type: none"> • EN61000-4-4, level 2
Surge	<ul style="list-style-type: none"> • EN61000-4-5, level 3
Safety Approvals	<ul style="list-style-type: none"> • EN50091-1-1, EN60240-1-1, EN60950, CE

Product Description

Section A

The top section of the cabinet houses the intergraded cooling fans and optional Maintenance Bypass Switch Panel when fitted.

Section B

Xi series UPS Electronic module complete with Liquid Crystal Display (LCD) provided information on

Information available from LCD:

- Input Voltage: VAC
- Output Frequency: Hz
- Output Voltage: VAC
- Battery Voltage: VDC
- Load: %
- Ambient Temperature: °C
- Internal Heatsink Temperature: °C
- Output Current: A

Section C

This section holds the battery modules (Xi BM), the number of Xi BM's fitted will depend on the battery capacity required for each application and the autonomy required on utility fail.

Each additional string of Xi BM adds 7Ah to the battery capacity of the system.

Section D

Behind these blanking panels can be found the customer interface - Input/Output and alarm terminal blocks - Breakers are provided for AC input isolation along with any customer specific distribution circuits



Notes

1. General assembly may change due to system configuration.

Schematics

