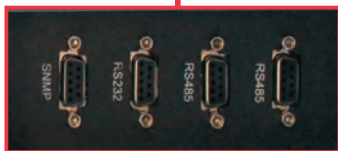
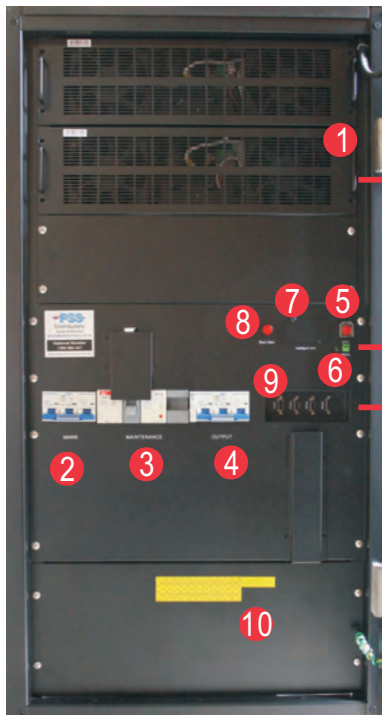


# PMU On-line 3 Phase UPS



- 1 UPS module
- 2 I/P switch
- 3 Maintenance switch
- 4 O/P switch
- 5 EPO port
- 6 REPO port
- 7 Intelligent slot
- 8 Battery cold start switch
- 9 SNMP/RS232/RS485 comms
- 10 Terminal block

## Features

- 3 Phase in / 3 Phase output
- Digital control
- Modular design
- Battery configurable from 32 to 40 batteries
- Multiple communications protocols- RS232/485/SNMP
- Intelligent charging method
- LCD display
- Input power factor 0.9
- Output power factor 0.9
- Efficiency of >94%
- Eco mode - efficiency >98%



## Specifications

<b>Model</b>	PMU-160
Capacity (VA)	160kVA
Power Rating (W)	128kW
<b>Input</b>	
Normal Voltage	380/400/415Vac, (3Ph + N+PE)
Voltage range	208-478Vac
Frequency Range	40-70Hz
Power Factor	≥0.99
Harmonic Distortion (THDi)	2% (100% non linear load)
Bypass Voltage Range	Max. Voltage: +15% (optional +5%, +10%, +25%); Min. Voltage:-45% (optional -20%, -30%); Frequency protection range: ± 10%
Generator Input	Supported
<b>Output</b>	
Rated Voltage	380/400/415Vac, (3Ph+N+PE)
Power Factor	0.8/0.9(customisable)
Voltage Regulation	± 2%
Frequency	Line mode: ± 1%/± 2%/±4%/±5%/±10% of the rated frequency (optional); Batt.mode: (50/60±0.2%)Hz
Crest factor	3:1
Harmonic distortion (THD)	≤2% with linear load, ≤5% with non linear load
Efficiency	95.5%
<b>Battery</b>	
Battery voltage	Standard unit: ±216Vdc; Long run unit optional voltage: ±192V/±204V/±216V/±228V/±240Vdc
Capacity ( standard unit)	12V/38Ah
Charge Current (A)	Max 30A
<b>System</b>	
Transfer time	0ms
Overload	Line mode: load ≤ 110%: 60min; ≤125%: 10min; ≤150%: 1min; ≥150% shut down UPS immediately Batt. mode: load ≤ 110%: 10min; ≤125%: 1min; ≤150%: 5s; ≥150% shut down UPS immediately
Breaker	100A
Short Circuit	Hold whole system
Overheat	Line mode: switch to bypass; backup mode: shut down UPS immediately
Low battery voltage	Alarm and switch off
Self-diagnostics	Shut down UPS immediately
<b>Comms &amp; Management</b>	
Ports	RS232, RS485, Parallel, Intelligent slot, Relay card (optional), SNMP card (optional)
Software	Windows 95/98/NT/2000/XP/Vista/7, Windows Server 2003/2008 Linux Debian, Redhat, Fedora, Suse, Ubuntu, CentOS, Novell, Mac, FreeBSD
LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature
LED	Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault
Options	Harmonic filter, SNMP adapter, Battery temperature sensor, Manual Bypass
<b>Environment</b>	
Operating temperature	0 - 40°C
Humidity	0 ~95% non-condensing
Storage temperature	-25°C - 55°C
Noise	Complies with EN62040-2
<b>Physical characteristics</b>	
Net (kg)	348
Dimension (W x D x H)	600 x 780 x 1600
<b>Safety &amp; EMC</b>	
CE, EN/IEC 62040-2, EN/IEC 62040-1-1	