

Modular UPS PLRM SERIES



PLRM Series is a scalable, redundant Modular UPS system designed to cost-effectively provide high level availability for high-density data centers and critical applications. True Online Double Conversion and advanced DSP control technology.

Modular Architecture can scale power and runtime as demand grows or as higher levels of availability are required. Combines the modular design with the N+X parallel redundancy technology. As a result, all unwanted situations that may occur in the network are filtered by the online UPS, and your sensitive devices are fed with clean energy.

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General specifications

- Excellent performance on non-linear loads (computer and switching power supplies).
- Input and output 50hz, 60hz, frequency optional.
- Intelligent power module based on IGBT technology full reliability.
- DSP (digital signal processor) control.
- Low output distortion factor.
- High efficiency.
- Audible alarm.
- User-friendly control panel.
- Modular design with swappable power module.



Ethernet port



APP



On Cloud monitoring



Cloud port



WLAN dongle



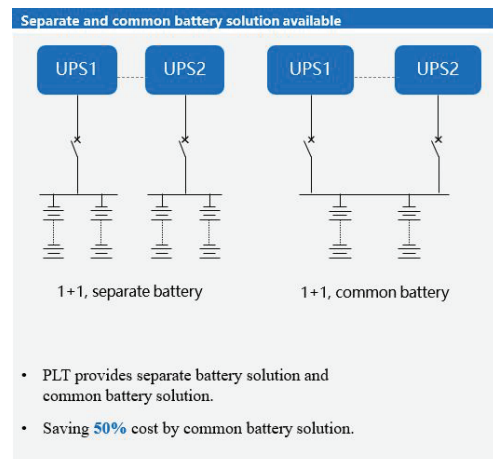
NMC card

Features

- Redundant parallel operation.
- Potential free output voltage.
- Full redundant control architecture.
- Very fast dynamic response time.
- Output short circuit proof.
- Wide range of ratings with IP protection up to 56 as standard.
- Low voltage ripple to prolong battery life time.
- Intelligent battery charge and monitoring control.
- Lithium Ion Battery charging options ready and available.

Options

- 2 Source input.
- <3% Input THDi with harmonic filter.
- Various voltage settings for different countries.
- Removing input neutral at site.
- Fusible Surge Suppression (AC/DC).
- Redundant Fans.
- Cabinet color can be chosen from RAL codes.
- Cable Entry (Top/side/bottom/rear).
- RS485, TCP, SNMP and GSM Communication.
- Automatic Battery Test.
- Touch Panel with Mimic Diagram.
- Parallel up to 4 units.
- DC Load supply.



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The PLRM series modular, online UPS ranging from 100 kVA to 600kVA is designed to protect any critical load for medium and large data centers achieving maximum availability

Key Features

- IGBT rectifier at the core of the best-in-class reliability.
- Modular Compact Cabinet Design contains maximum 6 slots.
- <3% THDI.
- Smart access to UPS data via a large color touchscreen with 2000-event exportable log.
- Modular design, up to 3 units in parallel online hot-swappable N+X redundancy.



Technical Data

Input	
Power Module Capacity	IGBT
Input Voltage -Single Phase	100 kVA/ Kw
Input Voltage -Three Phase	380/400/415 V
Voltage tolerance	323~478Vac
Frequency	50 Hz (60 Hz)
Frequency tolerance	40Hz~70Hz
Efficiency	99%
Power Factor	0.99
THD	<3%
Inrush current	≤ 10 x In(4)
Float Voltage	- 2.17-2.27 V/cell VRLA - 1.4-1.42 V/cell Ni cd
Ripple	<1%

Battery	
Type	Lead acid or nickel cadmium, Li
Autonomy	From few minutes to several hours, on request
Battery Voltage	± 240VDC
Charge Power	Up to 15 % from System Power

Output	
Inverter Bridge Topology	IGBT with output isolation Transformer
AC Voltage	380/400/415VAC
AC Voltage Tolerance	1%
Frequency	50 Hz (60 Hz)
Frequency Tolerance	+/- 0.1 %
Inverter overload capability	
- 1 minute	<150%
- 10 minute	<125 %
- 1hour	<110 %
Harmonic voltage distortion	
- With 100 % linear load	< 3 %
- With 100 % non-linear load	<5%
Power Factor	0.97
Static Transfer Switch	SCR Type
Static Bypass transfer Time	<4 ms

Title	
Operating temperature	0 to 40 °C ⁽⁴⁾
Storage temperature	-20 to +70 °C
Relative humidity	< 95 % non condensing
Operating altitude	1000 m max without derating ⁽⁴⁾
Cooling	Fan Forced, free cooling -Optional
MTBF	<150,000 h
External protection	IP 20 ⁽⁴⁾ according to IEC 60529
Internal protection	Protection against unintentional direct contacts, as per IEC 60950-1/62477-1
Noise (at 1m in front of the unit)	60 – 75 dB according to rating
Cabinet colour	RAL 7035 ⁽⁴⁾
Touch Panel " HMI"	Standard
Communication	- RTU RS485-Standard - TCP/ IP - Optional
Dimensions Cabinet	1000 * 1100 * 2000
Dimensions Power Module	440*795*174
Weight KG Cabinet	400
Weight KG Power Module	53.5

Standards

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IEC62040-1:2017	Uninterruptible power systems (UPS) - Part 1: Safety requirements
IEC62040-2:2016	Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements
IEC62040-3:2011	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements
IEC60529:1989 +AMD1:1999	Degrees of protection provided by enclosures (IP Code)

Conformity	
Low voltage directive	2006/95/EC and 2014/35/EU
EMC directive	2004/108/EC and 2014/30/EU
CE Mark	