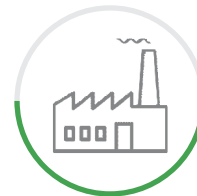
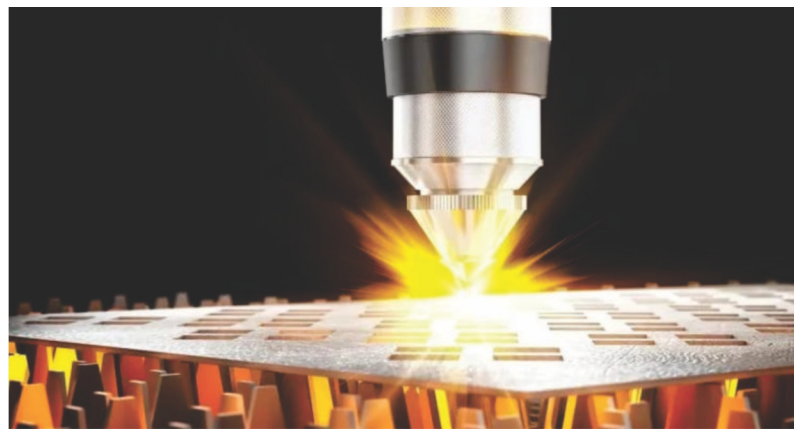




# PMP THREE PHASE SERIES

11 kVA – 500 kVA  
Isolation Transformer  
Based UPS



**3:3**

DIGITAL SIGNAL PROCESSOR BASED

UNINTERRUPTABLE  
POWER SUPPLY SYSTEMS



## LENTO INDUSTRIES EXPERIENCE

LENTO INDUSTRIES Pvt. Ltd., headquartered in Bangalore, with three State-of-the-Art Factories having 50,000 sq. feet manufacturing area, is a power conversion technology leader. Started in 1992, Lento Industries has accumulated rich experience in Power Protection Solutions, predominantly on Indian Power Condition. Today Lento Industries serves the nation, with 56 Offices, catering to multiple power solution demands across all industry verticals.

**Range of Product: PMP Series are Three Phase UPS Systems. Available in the range of 11/15/20/30/40/60/80/100/120/160/200/300/400 and 500 kVA Capacity. In-Built Isolation Transformers improves the reliability factor of PMP Series UPS.**

### INDUSTRIAL UPS WITH COMPACT DESIGN

PMP series UPS has a compact footprint with In-Built Isolation transformer. The state-of-the art, double-conversion topology and design of the PMP Series UPS is flexible and can meet practically all customer requirements. The system is suitable for use in harsh environments. PMP Series is best suited for Mission Critical, Medical Application, Process Industry, Transport, Industrial Application, IT application and Telecom.

### COLD START FUNCTION

PMP Series UPS has self-diagnosis functions before start up, to detect the health of the UPS and Batteries. When no utility access available, through its strong DC start ability, PMP Series UPS can be started even at full load.

### COMPREHENSIVE AND RELIABLE PROTECTION

The multi-protections such as overload, Short circuit over temperature, battery under voltage. Battery over charge and so on, greatly ensure the system stability and reliability. Advanced phase locked synchronization technology and dual electronic static output switches, ensure the switching operation between bypass and inverter without any disturbance. When UPS fails, it can transfer AC power to load thru Automatic static Bypass with no time delay .

PMP Series UPS has wide input range up to 290 V to 480 V AC to avoid frequent battery mode operations. Wide input frequency range up to 45 Hz to 55 Hz, ensures stable operations with all types of fuel generators.

### OPTIMIZATION OF HIGH-PERFORMANCE BATTERY

*Adapt intelligent battery management (ABM) technology, thus extending battery life and reducing maintenance time Work from Mains during Phase Sequence changes. Flexibility to connect 29-32 batteries enhance reduction of MTTR*

*Advanced floating switching and charging technology maximums the activation of the battery, thus saves the charging time and extends the battery life.*

### USER – FRIENDLY NETWORK MANAGEMENT

The PMP Series UPS Communicate with computer by RS 232/RS 485 with corresponding monitoring software. The various parameters can be shown on the communication interface. It has remote network arrangement capability and (optional) SNMP adapter can provide real-time data for communication and management systems.

## SALIENT FEATURES

- VFI, Online double conversion Topology
- Built-in True Galvanic isolation transformer Design,
- Strong anti-interference ability and protection.
- DSP Technology guarantees high reliability
- Designed to withstand all kinds of loads
- Intelligent Battery Management system to prolong battery lifecycle
- Accept dual mains input
- Parallel operation up to 4 units
- Versatile communication options available
- Input phase sequence protection
- Robust electrical design
- Screw less cabinet design and anti-moisture, dust and corrosion coated PCB to withstand harsh conditions.
- Unique ventilation design for effective heat dissipation
- Easy integration into existing electrical networks of generator.
- Wide input range
- Power Walk-in
- Generator Compatible
- Back Feed Protection
- Supports Regenerative Load

TECHNICAL SPECIFICATIONS	
<b>INPUT</b>	
Voltage	400VAC / 415VAC (3Ph+N)
Voltage Range	290VAC ~ 480VAC (Ph-Ph)
Frequency Range	45Hz to 55Hz
<b>OUTPUT</b>	
Voltage	380VAC /400VAC / 415VAC (3Ph + N)
Voltage Regulation	± 1%
Frequency & Waveform	50 Hz / 60 Hz & Pure Sine Wave
Total Harmonic Distortion (THD)	<2% (Linear load) <5% (Non Linear Load)
Phase Displacement	120° ± 1% Unbalanced Load
Power Factor	0.8
Efficiency	>92%
Overload Capability	110% for 60 min; 125% for 10 min; 150% for 60 sec
Crest Factor	3:1
Protection	Over Voltage, Under Voltage, Short Circuit, Over Temperature, Overload
Transient Response	±5% (Dynamic Regulation for 10% to 90% step linear load)
Transient Recovery	<1 cycle (Steady state condition after 10% to 90% step linear load)
<b>BATTERY &amp; CHARGER</b>	
Battery Type	VRLA SMF / Tubular / NICAD / Lithium ion
Battery Numbers	12V x 32 Nos (29 ~ 32 Nos adjustable)
Battery Voltage	384 VDC (348V-384V adjustable)
Charging Current Battery	Default 10A; Maximum 40A
<b>STATIC BYPASS</b>	
Voltage	300VAC ~ 450 VAC (Ph-Ph)
Transfer Time	Zero
Overload	110% for 60 min; 125% for 10 min; 150% for 60 sec
Maintenance Bypass	Available
Eco Mode	Available
<b>STANDARDS</b>	
EMI	62040-1
EMC	62040-2
Performance	62040-3
Quality Standards	ISO 9001,ISO 14001,ISO 45001& ISO 50001
<b>COMMUNICATIONS</b>	
Network Management	RS232, RS 485 MODBUS, SNMP
<b>ENVIRONMENTAL PARAMETER</b>	
Ingress protection	IP21
Operating Temperature	0- 50 °C
Humidity	0- 95% (Non Condensing)
Altitude	0-1500 M without derating
Color	HAVELLS GREY

## PHYSICAL DIMENSION

Model	PMP 11	PMP 15	PMP 20	PMP 30	PMP 40
Capacity	11kVA/8kW	15kVA/12kW	20kVA/16kW	30kVA/24kW	40kVA/32kW
Dimension (DWH)	656 x 405 x 817			656 x 405 x 941	821 x 432 x 1159
Net Weight (Kg)	118	120	145	193	275

Model	PMP 60	PMP 80	PMP 100	PMP 120	PMP 160
Capacity	60kVA/48kW	80kVA/64kW	100kVA/80kW	120kVA/96kW	160kVA/128kW
Dimension (DWH)	821 x 432 x 1159	975 x 554 x 1286		976 x 635 x 1326	
Net Weight (Kg)	365	471	573	650	760

Model	PMP 200	PMP 300	PMP 400	PMP 500
Capacity	200kVA/160kW	300kVA/240kW	400kVA/320kW	500kVA/400kW
Dimension (DWH)	1051 x 705 x 1646	1400 x 1000 x 1900	1640 x 1000 x 1900	2580 x 1000 x 1900
Net Weight (Kg)	845	1690	2665	3730



ONLINE UPS SYSTEMS | MODULAR UPS SYSTEMS | LITHIUM BATTERY | LITHIUM INVERTER INBULT BATTERY  
 SOLAR INVERTERS | SOLAR HYBRID GRID INVERTERS | SINEWAVE INVERTERS  
 EV CHARGERS | OUTDOOR UPS | ONLINE UPS



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