

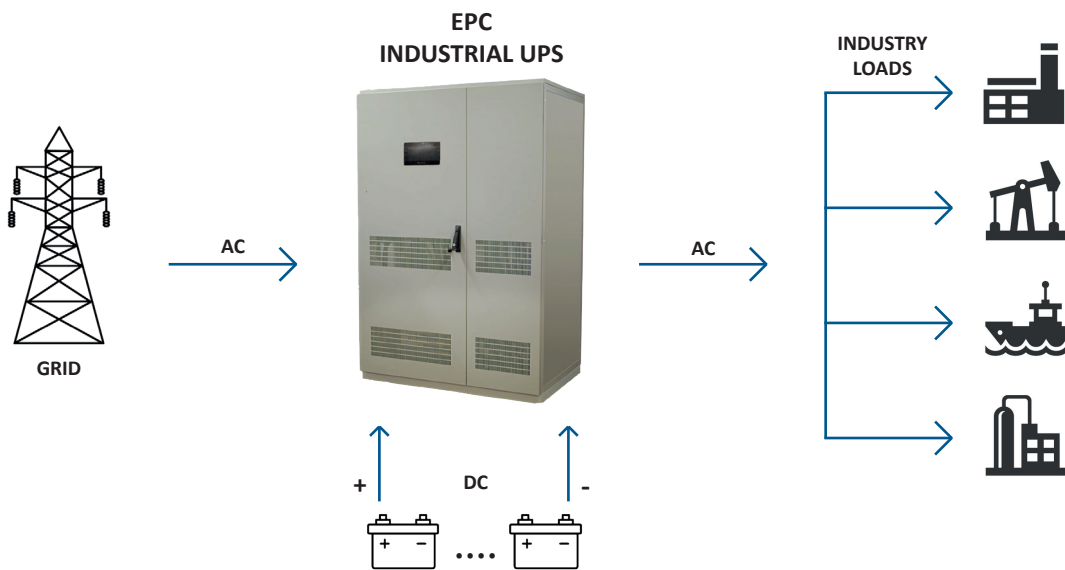
INDUSTRIAL UPS

3:1 Phase 3:3 Phase

- Pure Sine Wave Output
- 50 to 400Hz Operation
- Output Isolation Transformer
- IPM or IGBT Technology
- Faster Processing (DSP control)
- High Overload Capability
- Ingress Protection: IP20 to IP55
- Audiable & LED Alarm
- Compatible Modbus Protocol
- TMS protection at All Terminals
- Automatic Start and Fault Recovery
- Self-diagnostics with Log Records
- Smart Charging Facility, Built-in Battery Monitoring Facility
- Modular Board Structure for Easier Replacement and Repair



PL SERIES | INDUSTRIAL UPS



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KEY FEATURES		
Model	PL3100	PL3300
Input Phase	Three Phases	Three Phases
Output Phase	Single Phase	Three Phases
Rated Power	Up to 600kVA	
INPUT PARAMETERS		
Mains & Bypass Voltage	190VAC / 200VAC / 210VAC 380VAC / 400VAC / 415VAC 440VAC / 460VAC / 600VAC (OPT: Others)	
Mains Voltage Range	±10% / ±15% / ±20%	
Wiring	3W (3P) / 4W (3P+N)	
Frequency	50Hz, 60Hz or 400Hz (±15%)	
Rectifier Type	6-Pulse / 12-Pulse	
THDi	<30% (6-Pulse) / <12% (12-Pulse)	
OUTPUT PARAMETERS		
Output Voltage	110VAC to 275VAC ± 1% (Bypass applies)	190VAC to 600VAC ± 1% (Bypass applies)
Frequency	50Hz, 60Hz or 400Hz (±15%)	
Power Factor	0.8	
Efficiency	Up to 93%	
THDu	2% (linear load) / 5% (non-linear load)	
Crest Factor	3:1	
Recovery Time	25ms (to within 1%)	
Overload	Load 110%: Continuous Load 110-125%: 10min Load 125-150%: 1min Load >150%: Bypass	
BATTERY PARAMETERS		
Battery Type	VRLA / OPzV / OPzS / Ni-Cd	
Battery Voltage	384VDC (nominal)	
Battery Charge Voltage	VRLA / OPzV / OPzS: 2,23VDC to 2,35VDC (Float) – 2.40VDC (Boost/Equalize) per cell (Adjustable) Ni-Cd: 1,42VDC (Float) – 1,47VDC to 1,7VDC (Boost/Equalize) per cell (Adjustable)	
Battery Charge Current	VRLA / OPzV / OPzS: 10-15% Current of Battery Capacity (Adjustable) Ni-Cd: 20% Current of Battery Capacity (Adjustable)	
Boost Charge Timer	0-20 Hours (Adjustable)	
PHYSICAL CHARACTERISTICS		
Cabinet Type	Standalone Tower (OPT: Others)	
Cabinet Colour	RAL7032, RAL7035 (OPT: Others)	
Protection Degree	IP20 (OPT: IP21 to IP55)	
Cooling System	Fan Forced Ventilation (OPT: Natural Cooling, Water Cooling, Smart Fans)	
Cable Entry	Bottom (OPT: Top, Rear, Side)	
ENVIRONMENT		
Storage Temperature	-25 to 70°C	
Operating Temperature	-10 to 50°C	
Relative Humidity	0 to 95% (Non-Condensing)	
Operating Altitude	1000m from MSL (1% derate each 100m after 1000m)	
Acoustic Noise	55dB to 80dB	
COMMUNICATIONS		
Standard Communication	ModBus RTU over RS232 (OPT: RS485, ModBus TCP/IP, SNMP and IEC61850), Dry Contact x4 (OPT: to x16)	
Parallel Operation	Passive: Infinite (OPT: Active: Up to 4 Units)	
HMI	LED/LCD Panel (OPT: Touch Screen Panel, Mimic Panel)	
Languages	Turkish, English, German, Dutch, Portuguese, Spanish, Russian	
PROTECTIONS		
Battery Protection	Temperature Compensating Charge / LVD / Battery Current Limiting	
Input / Output Protection	MCB or MCCB for Input, Output and Battery Line (Input AC) Failure, DC & Battery Low-High Alarm Output Current Limiting, DC Earth Fault, Over Temperature Load on Battery, Charger Failure, Emergency Stop	
ADDITIONAL FEATURES (OPT.)		
Input Transformer	Isolation Transformer at Input / Bypass	
Input Harmonic Distortion (THDi)	5% (12 pulse rectifier and filter)	
Input Power Factor	0.9 (With additional filter or 12 pulse rectifier and filter)	
MBS	Full isolation with maintenance Bypass	
Operating in Parallel	1+1 system (Standby, Current Sharing, Parallel Redundant)	
Gauges	Input Voltage & Current Output Voltage & Current Battery Voltage & Current	
DC Power Supply	Output & Battery Monitoring Continue (when AC Fails)	
Protections	Fan Failure, SCR Fuse Failure, Breaker Off, External Block Parallel Fault, Temperature Probe Failure, High Ripple SPD, Cabinet Heater, Cabinet Lightning, Service Plug	
Others		
STANDARDS		
EN62040-1	General and Safety Requirements for UPS	
EN62040-2	Electromagnetic Compatibility (EMC) Requirements for UPS	
ISO14001 - ISO9001	Quality Assurance	

Note: Product properties may change without a notice by EPC.