

INDUSTRIAL UPS

1:1 Phase 3:1 Phase 3:3 Phase

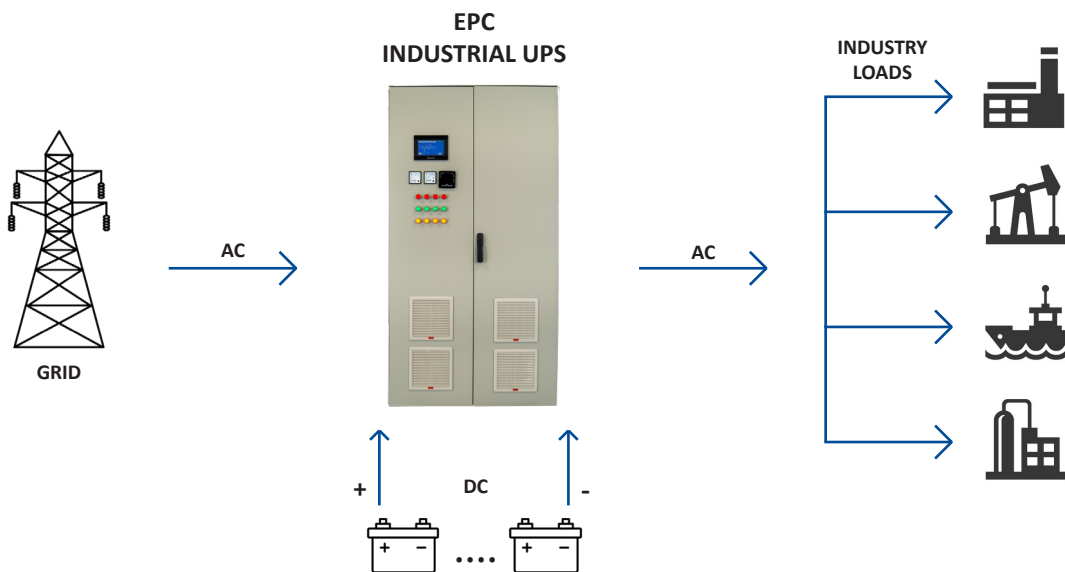
FEATURES

- 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



Tower Type

PLI SERIES | INDUSTRIAL UPS



KEY FEATURES			
Model	PLI1100	PLI3100	PLI3300
Input Phase	Single Phase	Three Phases	Three Phases
Output Phase	Single Phase	Single Phase	Three Phases
Rated Power	Up to 40kVA	Up to 200kVA	Up to 1000kVA
INPUT PARAMETERS			
Mains & Bypass Voltage	110VAC / 115VAC / 120VAC 220VAC / 230VAC / 240VAC (OPT: Others)	190VAC / 200VAC / 210VAC 380VAC / 400VAC / 415VAC 440VAC / 460VAC / 600VAC	
Mains Voltage Range	±10% (±15% / ±20% functional)		
Wiring	2W (P+N)	3W (3P) / 4W (3P+N)	
Frequency	50Hz, 60Hz or 400Hz (±10%)		
Rectifier Type	Full Bridge	6-Pulse / 12-Pulse	
OUTPUT PARAMETERS			
Output Voltage	110VAC / 115VAC / 120VAC 220VAC / 230VAC / 240VAC (OPT: Others)	190VAC / 200VAC / 210VAC 380VAC / 400VAC / 415VAC 440VAC / 460VAC / 600VAC (OPT: Others)	190VAC / 200VAC / 210VAC 380VAC / 400VAC / 415VAC 440VAC / 460VAC / 600VAC (OPT: Others)
Frequency	50Hz, 60Hz or 400Hz (±15%)		
Power Factor	0.8 (1 PF opt.)		
THDu	2% (linear load)		
Crest Factor	3:1		
Recovery Time	25ms (to within 1%)		
Overload	Load 110%: Continuous Load 110-125%: 10min Load 125-150%: 1min		
Isolation	Galvanic isolation transformer		
BATTERY PARAMETERS			
Battery Type	VRLA / OPzV / OPzS / Ni-Cd		
Battery Voltage	110VDC / 220VDC (Optional.) - 384VDC (Standart)		
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 85dB		
COMMUNICATIONS			
Standard Communication	ModBus RTU over RS232 (OPT: RS485, ModBus TCP/IP, SNMP and IEC61850), Dry Contact x4 (OPT: to x16)		
Paralel 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 (TDHI)	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		
Protections	Fan Failure, SCR Fuse Failure, Breaker Off, External Block Parallel Fault, Temperature Probe Failure, High Ripple		
Others	SPD, Cabinet Heater, Cabinet Lighting, Service Plug		
STANDARDS			
EN62040-1	General and Safety Requirements for UPS		
EN62040-2	Electromagnetic Compatibility (EMC) Requirements fo UPS		
ISO14001 - ISO9001	Quality Assurance		

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