

PLT Series



- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional graphical and touch panel
- 2 years warranty
- 10 years spare parts support
- Manufactured according to EC Directive; EN62040
- Full digital structure
- Small footprint
- Economode operation
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output Voltage / Frequency range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge / discharge current indicator
- Advanced remote control features

DESCRIPTION

The new PLT UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impeding its performance. With the PLT Power range, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

GENERAL SPECIFICATIONS

- Transformerless UPS topology
- Low input current total harmonic distortion (THD)
- High input power factor
- High efficiency up to 94 %
- Cold Start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 192 events memory 192 events 4500 alarms)
- Clock and calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated charge system



TECHNICAL SPECIFICATIONS									
	PLT 310	PLT 315	PLT 320	PLT 330	PLT 340	PLT 360	PLT 380	PLT 3100	PLT 3120
Power kVA	10	15	20	30	40	60	80	100	120
INPUT									
Power factor / THDI	> 0,98 / < 5 %								
Voltage	380 - 400 VAC 3 Phase + N + E ± 20% (240 / 415VAC + 15%, -25%)								
Frequency	50 Hz / 60Hz selectable ± %5								
By-pass Voltage	380 - 400 VAC 3 Phase , 4 Wires ± 20%								
By-pass Protection	Short circuit, Voltage tolerance, Frequency tolerance, VAT transfer								
Voltage Distortion	< 10%								
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Input PFC								
OUTPUT									
Power (kW)	9	13,5	18	27	36	54	72	90	108
Power Factor	0.9								
Voltage	380-400 Vac 3 phase + N + E ± 1%								
Frequency	50 Hz / 60Hz selectable								
Frequency tolerance	Line synchronized: ± 2 % / Free running: ± 0,2% (adjustable)								
Efficiency	up to 94%								
Crest Factor	3:1								
Overload protection	100% - 125 % load: 10 min., 125% - 150 % load: 1 min., - > 150% load: by pass (adjustable)								
Other protection	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting								
THD (at 100% linear load)	<3%								
BATTERY									
Type	Sealed Acid - Maintenance Free								
Number of Battery	2x30 (±30): 60 batteries								
Float Charging Voltage	2 x 405 VDC								
End of Discharge Voltage	2 x 300 VDC								
Battery Cabinet	Internal							External	
Battery ambient temp.	25 °C								
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation								
Automatic testing	Standard every 72 hours (adjustable)								
GENERAL									
Regulations	EN62040-2								
User Interface	4 lines LCD panel, Mimic leds, 5 vector buttons, buzzer, optional graphical touch-panel								
Indicators	P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF Service Time								
Advanced	Self diagnostics, 4 maintenance time indicators, Calibration over RS232								
Communication	2 x RS232 serial ports, 4 standard and 8 optional DRY contact alarm relays								
Inputs	EPO input, Interactive battery panel input, Genset Input								
Genset kit	Standard (programmable)								
Software	Standard T-Mon UPS Management Software (3 clients + 1 server management)								
Alarm logging	Standard: with time & date 192 events, (optional) 512 events								
Protections	Power module over-temperature, Over current, Temperature high alarm								
Temperature range	0 °C - 40 °C								
Protection Degree	IP20								
Humidity / Altitude	90% max (noncondensed) / <1000 m above sea level								
Acoustic Noise	<57 dBA		<62 dBA			<64 dBA		<68 dBA	
Weight Without Battery	87	87	91	100	173	180	194	216	216
Dimensions (mm) (HxWxD)	400x815x1035				515x850x1440			775x910x1900	
OPTIONS									
Input	110 / 208 VAC								
Output	110 / 208 VAC								
Transformer	Galvanic isolation transformer at the input & output								
Software	T-mon Admin Multi UPS monitoring, T-Mon Server 50-100-200 clients, DLOG log loader								
Adaptors	SNMP, MODBUS, RS485, Remote Panel								
Parallel Operation	available 1+1 / N +1 (up to 4) 2014								
NOTE: All specifications subject to change without notice. Consult EPC's Technical Support Department for special applications. All names used above are registered trademarks of their respective owners.									

PLT Series

200-500 kVA Three Phase

TECHNICAL SPECIFICATIONS					
MODELS	PL T 3200	PL T 3250	PL T 3300	PL T 3400	PL T 3500
Power (kVA)	200	250	300	400	500
INPUT					
Voltage	380/400 VAC 3 Phase + N + E ± 20% (415 VAC +15 %, +250 % optional)				
Frequency	50 Hz. / 60 Hz. selectable, ±5%				
Power Factor	> 0.99				
Harmonic Current Distortion (THDI)	< 4 %				
By pass Voltage	380 / 400 VAC 3 Phase + N , 4 Wires, ± 10%				
Voltage Distortions	< 10 %				
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator				
OUTPUT					
Power (kW)	180	225	270	360	400
Power Factor	0,9				0,8
Voltage	380/400 VAC 3 Phase + N ± 1% (415 VAC optional)				
Frequency	50 Hz. / 60 Hz. selectable				
Frequency Tolerance	Line synchronized: ± 2 % / Free running: ± 0,1 % (adjustable)				
Efficiency	up to 95%				
Crest Factor	3:1				
Overland Protection	100% - 125% load: 10 min., 125% - 150% load: 1 min, - >150% load: by pass				
Other Protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting				
THD (at 100% Linear Load)	< 3 %				
BATTERY					
Type	VRLA AGM / GEL / NiCd				
Nominal Voltage	± 360 VDC				
Float / End of Discharge Voltage	± 405 VDC / ± 300 VDC				
Battery Cabinet	External				
Battery Ambient Temperature	25 °C				
Protections	3 Level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)				
Automatic Testing	Standard every 72 hours (adjustable)				
GENERAL					
Standards	EN62040-1, EN62040-2				
User Interface	TFT PANEL, 5 vector buttons, Buzzer,				
Indicators	P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time				
Advanced	Self diagnostics, 3 maintenance time indicators, Calibration over RS 232, operating hour meter				
Communication	2xRS232 serial ports 4 standard and 8 optional DRY contact alarm relays				
Inputs	EPO input, interactive battery panel input, Gensel input				
Gensel Kit	Standard (programmable)				
Software	Standard T-mon UPS Management Software (3 clients + 1 server management)				
Alarm Logging	Standard: with time & date 512 events				
Protections	Power module over-temperature, Over current, Temperature high alarm				
Temperature Range	0 °C - 40 °C				
Protection Degree	IP20				
Relative Humidity	90% max. (noncondensed)				
Altitude	< 1000m. above sea level				
Acoustic Noise	< 68 dBA		< 72 dBA		
Weight Without Batters (Kg)	482	550	638	737	780
Dimensions (Mm) Hxwx d	1900x880x775		1900x1250x775		2020x1250x775
OPTIONS					
Different Input / Output Voltage	Please ask				
Transformer	Galvanic isolation transformer at the input & output				
Software	T-mon Admin Multi UPS monitoring 10-50-100-200 clients, T-mon Server 50-100-200 clients				
Adaptors	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Comport multiplexer				
Parallel Operations	up to 8				
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