

PL Series



GENERAL SPECIFICATIONS

- True On-line Topology / Sinusoidal Output
- IGBT / IPM Technology (Inverter Circuit)
- 12 or 6 Pulsed Thyristor Controlled Rectifier
- Galvanic Isolation at the Output of the Inverter
- Static and Mechanic Maintenance By-Pass
- Advanced Automatic and Manual Battery Test System
- Superior performance on non-linear loads.
- RS232 and Dry Contacts or RS485, Modbus Communication and Remote Monitoring.
- High Efficiency up to 94%.
- Space Vector Application.
- High Performance Design.
- Overload and Short Circuit Protection.
- Compatible with International Standards
- Soft Start
- Temperature Compensated Battery Charging
- Hot Standby Configuration
- Advanced 2x16 or 4x20 LCD Panel Providing detailed Information on Input/Output Voltage, Battery Voltage, Charging Current.
- Interior Temperature and Setting User Selectable Parameters
- 200 Recorded Event History.
- Alarm Logging with date and time
- Compact and Quiet.
- Guarantee of 10 years spare parts availability.
- 24 Hours Emergency Technical Support.

Options:

- Parallel Application, Touchscreen Display, IGBT Rectifier

TECHNICAL SPECIFICATIONS

MODELS	310	315	320	330	340	360	380	3100	3120	3160	3200	3250	3300	3400	3500	
Power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300	400	500	
INPUT																
Input Voltage	3*190VAC / 3*220VAC / 3*360VAC / 3*380VAC / 3*400VAC / 3*415VAC (Phase to Phase)															
Input Voltage Range	+10%, -15%															
Input Frequency	50 Hz or 60 Hz															
OUTPUT																
Power (kW)	8	12	16	24	32	48	64	80	96	128	160	200	240	320	400	
Power Factor	0.8															
Output Voltage	3*190VAC / 3*220VAC / 3*360VAC / 3*380VAC / 3*400VAC / 3*415VAC (Phase to Phase)															
Voltage Stability	(Balanced load: ± %1) (Unbalanced load: ± %2.5) (Step load: ± %5)															
Correction Time	After step load: Max 25 ms.															
Frequency	50 Hz or 60Hz															
Frequency Tolerance	Adjustable + % 2 (synchronous) , +%0.2 (free operation)															
Efficiency of %100 Load	87 - 91%						90 - 92%					92 - 94%				
Total Harmonic Distortion	<%3 (for linear loads), <%7 (for non-linear loads)															
Crest Factor	3:1															
Overload Protection	(100% 125% load: 10min.) (125% 150% load: 1min.) (>150% load: by-pass)															
Short Circuit Protection	Short circuit protection electronically															
BATTERY																
Type	Maintenance free lead-acid															
Battery Number	10 or 20 or 30 or 32						30 or 32 or 44					30 or 32 or 44				
Charge Voltage (Vdc)	135 / 270 / 405 / 432						405 / 432 / 540					300 / 320 / 480				
Discharge Voltage (Vdc)	102 / 204 / 300 / 320						300 / 320 / 480									
Ambient Temperature	25 °C															
Battery Test	Automatic or manual															
GENERAL																
Series Communication	RS232(Standard), Dry Contacts (Standard), RS485(Optional), TCP(Optional), SNMP(Optional), GSM(Optional)															
Software	Management software															
Operating Temperature Interval	0°C - 40°C															
Cooling	Forced cooling															
Relative Humidity	>90% condensing															
Operating Height	<1000m from sea level															
Acoustic Noise	<56dBA			<60dBA				<65dBA				<70dBA				
Protection Class	IP20(Standard) to IP54(Optional), (consult to EPC for IP54 to IP65)															
APPLICATION STANDARDS																
EMC, Safety	IEC62040-1, IEC62040-2															
Quality Assurance	ISO14001 - ISO9001															
OPTIONS																
Input Transformer	Isolation transformer at input.															
Input Harmonic Distortion THD	%5 (12 pulse rectifier and filter)															
Input Power Factor	0.90 (With additional filter or 12 pulse rectifier and filter)															
MBS	Full isolation with maintenance by-pass															
Operating In Parallel	1+3 system (Standby, Current sharing, Parallel Redundant)															
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.																