



LenoX

3.0 SERIES
L-TP-HYBRID

PERFORMANCE YOU TRUST, PROTECTION YOU NEED.

This inverter is compatible with all 48V LiFePO4 batteries and features an external status light with a colorful touch LCD for quick monitoring. It offers 6 charging/discharging time periods, supports diesel generator energy storage, and enables easy AC coupling for existing solar systems.

With its plug-and-play design, IP65 waterproof protection, and an external structure for quick maintenance, installation and servicing are effortless. It includes a powerful 240A solar charge controller, smart load management, a built-in zero export device, and allows users to monitor performance anytime.

Backed by a 5-year PCBA replacement warranty, it delivers long-term reliability and stable performance in all conditions.

5 Years Replacement Warranty
+ Life Time Repairable

FIRST EUROPEAN
VERSION - MULTIPLE
PCBA BASED INVERTER

PV15600
12KW-3PHASE



PV20000
16KW-3PHASE



IP65
PROTECTION
AGAINST DUST AND WATER

- TOUCH SCREEN BUTTONS
- 100% REVERSE GRID FEEDING
- MAX EFFICIENCY 98%
- POWER FACTOR 1.0
- 240A SOLAR CHARGE
- BUILT-IN WI-FI
- HIGH EFFICIENCY
- IP65 PROTECTION
- DUAL MPPT
- SAFE
- COMMUNICATION FOR LITHIUM BATTERY
- SUPPORT GENERATOR CONNECTION
- HIGH POWER FACTOR
- GRID FEEDING
- REMOTE MONITORING VIA APP
- RS485 COMMUNICATION PORT
- SMART LOAD MANAGEMENT
- PARALLEL UP TO 6 UNITS
- INTERNAL SPD
- HIGH SURGE ENDURANCE
- ZERO EXPORT
- 6 TIMES PERIODS FOR BATTERY DISCHARGE
- SUPPORT STORING ENERGY FROM DIESEL GENERATOR
- SUPPORT MULTIPLE BATTERIES PARALLEL
- AC COUPLING TO RETROFIT EXISTING SOLAR SYSTEM
- 100% THREE-PHASE UNBALANCED OUTPUT, WITH EACH PHASE CAPABLE OF DELIVERING UP TO 50% OF THE RATED POWER



OPTIONAL Wi-Fi MONITORING

Monitor & configure your device from anywhere

Use Wi-Fi Function to remotely monitor the real-time running status of the product

AVAILABLE ON



MODEL	LENOX L-TP- 12KW-48	LENOX L-TP- 16KW-48
Rated power	12000W	16000W
PV INPUT		
Max.power(KW)	15600	20000
Max.DC voltage(V)	800	800
MPPT voltage range(V)	200-650	200-650
Max.input current(A)	32+18	36+36
Max.input strings number	2+1	2+1
AC OUTPUT (GRID-TIED)		
Grid voltage/range(V)	230/400V (Three Phase)	
Frequency(Hz)	50/60	
PF	0.8lagging-0.8leading	
THDi	<3%	
AC output topology	L+N+PE	
BATTERY		
Battery voltage range (V)	40~63	
Max.charging voltage(V)	63	
Max.charge/discharge current(A)	240/240	240/240
Battery type	Lithium / Lead-acid / Tubuler	
UPS OUTPUT		
Rated power (kw)	12	16
Peak power (Off Grid)	1.5 Times of rated power 10Sec	
3 Phase rated output current(A)	30	42
Rated frequency (Hz)	50/60	
Transfer time(ms)	<10	
THDu	<10%	
Overload capacity	5s > 110%load; 10s > ≥101%~110% load	
PROTECTION & FEATURE		
Anti-island protection	Yes	
Insulation monitoring	Yes	
Residual current monitoring	Yes	
Arc fault protection	Yes (Optional)	
Parallel function	Yes, Multiple	
Other protection	AC Over-Current, AC Over-Voltage, Over Temperature Protection	
GENERAL PARAMETER		
Efficiency (peak)	99%	
Degree of protection	IP65	
Operating temperature range (°C)	-40°C~60°C, >45°C derating	
Cooling	Smart Cooling	
Relative humidity	5~95%(non-condensing)	
Altitude	(>2000m Derating)	
Dimensions W x D x H(mm)	446*486*256	
EMC/Safety regulation	IEC/EN 62109-1, IEC/EN62109-2, IEC/EN 61000-6-2, IEC/EN 61000-6-4	
Isolation transformer	Yes	
Self-consumption(W)	<5	
DISPLAY AND COMMUNICATION		
Display	Touch screen	
Interface	Standard:RS232,CAN&RS485; Optional:Wi-Fi,CT	
Safety standard	EN/IEC62109-1,EN/IEC62109-2	

Note: Product specifications are subject to change without further notice