

LESSO

LEC-8kW

Residential Hybrid Inverter



The LEC-8kW delivers a powerful and adaptive solution for residential solar storage, combining high efficiency, robust protection, and intelligent energy management. Designed for homes in high electricity-cost regions, it maximizes solar self-consumption, slashes energy bills, and ensures uninterrupted backup power during outages.



190A Ultra-Fast Charge/Discharge

Manage heavy loads instantly



Industry-Leading IP66 Protection

Dustproof, waterproof, install anywhere



Scale to 6 Units in Parallel

Expand power seamlessly for grid/off-grid



4-Stage Smart Charging

Cut costs via customizable energy schedules



Universal Battery Compatibility

Support lead-acid/lithium-iron battery



Remote & Touchscreen Control

Monitor and adjust via 4G/WiFi or touchscreen

Product Model	LEC-802A3BD-AT
PV Input	
Max PV (Vdc) (absolute Max.)	500V
Isc PV (absolute Max.) (A)	37.5/22.5
Max. PV input current/strings (A)	30A/18A
Number MPPT trackers	2
MPPT range (Vdc)	150~450
Vdc range @ full power (Vdc)	240~425
PV Max (W)	16000
Battery (charge/discharge)	
Battery type	Li-ion/Lead-acid
Battery norma voltage (Range) (Vdc)	48V(44-57V)
Max charge/discharge current (A)	190
Max charge/discharge Power (W)	8000
AC Grid (input and output)	
Normal AC voltage (VAC)	230(single phase)
Frequency (Hz)	50/60
Max.cont output current (A)	40
Max.cont output power (W)	8000
Max.cont apparent power (VA)	8800
Power factor (adjustable)	0.8 leading to 0.8 lagging
AC Load Output (stand alone)	
Normal voltage (VAC)	220/230(single phase)
Frequency (Hz)	50/60
Nominal curent (A)	40
Max.cont power (W)	8000
Overload capability (off grid)	>200% for 15 sec
Output power factor (off grid)	1~(0.8 leading to 0.8 lagging)
Output current harmonic distortion	THD<3%(Nonlinear load); THD<1.5%(Linear load)
Others	
Ingress protection (IP)	IP66
Protective class	Class I
Temperature (°C)	-25°C~+60°C
Inverter isolation	Non-isolated PV- AC; High frequency isolated(Battery Side)
Overvoltage category	OVC III (AC Main), OVC II (PV)
Package size (H×W×D) (mm)	615×485×285
Gross weight (kg)	26
Machine size (H×W×D) (mm)	554×427×198
Net weight (kg)	20
Altitude (m)	2000

Remarks: Specifications are subject to change without notice; Special voltage and power requirements can be customized designed