

LESSO



LEC-10kW

Residential Hybrid Inverter

LEC-10kW delivers superior power capacity and intelligent energy management for high-demand residences. This advanced hybrid inverter solution combines robust 10kW output with cutting-edge efficiency to maximize solar self-consumption, significantly reduce electricity costs, and provide instantaneous backup power during grid failures.



10kW Continuous (20kW Peak) Output



Dual MPPT with 99.9% Efficiency



200A Hyper-Fast Battery Charging



Smart 4-Stage Energy Scheduling



10ms Seamless Backup Transition



Silent Indoor Operation

Model	LEC-103A3B2F
PV Input	
Max input voltage (V)	500
Isc PV (A)	28.75/28.75
Max input current (A)	23/23
Number of MPPT channels	2
MPPT range (Vdc)	125-435
Vdc range @ full power (Vdc)	240-425
Max input PV power (VA)	16000
Battery (charge/discharge)	
Battery type	Li-ion / Lead-acid / User-defined
Rated norma voltage (Range) (Vdc)	48V(40-60V)
Rated battery voltage (V)	48
Max charge/discharge current (A)	200
Max charge/discharge power (W)	10000
AC Grid (input and output)	
Rated AC voltage (Vac)	230(Single phase)
AC input voltage (Range) (Vac)	90-275
Rated frequency (Hz)	50/60
Bypass over current (A)	60
AC Load Output (stand alone)	
Rated voltage (VAC)	230(Single phase)
Rated frequency (Hz)	50/60
Rated current (A)	45
Rated output power (W)	10000
P-P output power (W)	15000
Load capacity of motors	6HP
Overload capability (off grid)	After triggering the overload protection the inverter will resume output after 3 minutes, 5 consecutive overloads will switch off the output until the inverter is restarted. (102%<load< 125%): error and output shutdown after 10s. Load > 125%: error reported and output switched off after 5s.
Output power factor (off grid)	0.8 leading to 0.8 lagging
Others	
Ingress protection (IP)	IP20, indoor only
Temperature (°C)	-10~55°C, >45°C derated (14~131°F, >113°F derated)
Inverter isolation	Non-isolated PV-AC, High frequency isolated (Battery side)
Dimensions D*W*H (mm)	620*445*130
Weight (kg)	27
Altitude (m)	2000
Cooling method	Built-in fan
Commication	
Embedded interfaces	RS485/CAN/USB/Dry contact
External modules (optional)	WiFi/GPRS

Remarks: Specifications are subject to change without notice.