

# LESSO

## LEC-10kW

### Residential Hybrid Inverter



LEC-10kW is a new type of solar energy storage inverter control inverter integrating solar energy storage & utility charging and energy storage, AC Sine wave output. It adopt DSP control and features high response speed, reliability, and industrial standard through an advanced control algorithm.



Support multi-machine parallel application



99.9% efficient MPPT, 22A per circuit



Supporting dual voltage of 120/240V output



4 intelligent charging modes & scheduling



Seamless power switch & energy-saving mode



Full 360° protection & multi-communication ports

Model	LEC-103E5B1F
<b>PV Input</b>	
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
<b>Battery (charge/discharge)</b>	
Battery type	Li-ion / Lead-acid / User-defined
Rated normal voltage (Range) (Vdc)	48V(40-60V)
Rated battery voltage (V)	48
Max charge/discharge current (A)	200
Max charge/discharge power (W)	10000
<b>AC Grid (input and output)</b>	
Rated AC output voltage (Vac)	120/240VAC, Single-phase/Split-phase, L1/N/L2
AC input voltage (Range) (Vac)	120(Range:80-130)/240(Range:160-260) VAC, Single-phase/Split-phase, L1/N/L2
Rated frequency (Hz)	50/60
Bypass over current (A)	60
<b>AC Load Output (stand alone)</b>	
Rated voltage (VAC)	120/240VAC(Single-phase/Split-phase)
Rated frequency (Hz)	50/60
Rated current (A)	42/42
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
<b>Others</b>	
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
<b>Communication</b>	
Embedded interfaces	RS485/CAN/USB/Dry contact
External modules (optional)	WiFi/GPRS

Remarks: Specifications are subject to change without notice.