

# LESSO



## LEC-ABF Series

### Residential Hybrid Inverter

7-10kW | Single Phase

LEC-ABF Series (7-10kW) 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-702A1B1F	LEC-852A1B1F	LEC-103A1B1F
<b>PV Input</b>			
Max input voltage (V)	500		
Isc PV (A)	25/25	27.5/27.5	28.75/28.75
Max input current (A)	20/20	22/22	23/23
Number of MPPT channels	2		
MPPT range (Vdc)	125-435		
Vdc range @ full power (Vdc)	240-425		
Max input PV power (VA)	14000	15200	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)	170	180	200
Max charge/discharge power (W)	7000	8500	10000
<b>AC Grid (input and output)</b>			
Rated AC voltage (Vac)	230(Single phase)		
AC input voltage (Range) (Vac)	90-275		
Rated frequency (Hz)	50/60		
Bypass over current (A)	60		
<b>AC Load Output (stand alone)</b>			
Rated voltage (VAC)	230(Single phase)		
Rated frequency (Hz)	50/60		
Rated current (A)	32	38	45
Rated output power (W)	7000	8500	10000
P-P output power (W)	11000	12000	15000
Load capacity of motors	4HP	5HP	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.