

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-702A3BF		LEC-802A3BF	LEC-103A3BF
PV input				
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	
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)	175	190	200	
Max charge/discharge power (W)	7000	8000	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)	35	40	45	
Rated output power (W)	7000	8000	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< 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.