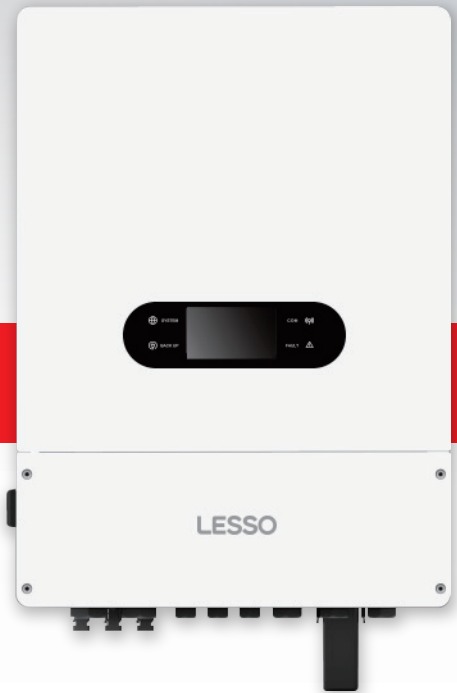


# LESSO

## LEC-BBD Series

### Residential Hybrid Inverter

5-12kW | Three Phase



The LEC-BBD Series(5-12kW) stands out as a top-tier choice in the residential and light commercial hybrid inverter market, combining industrial-grade durability with intelligent energy management. Designed for homes, villas, and small enterprises in high electricity-cost regions, it maximizes solar self-consumption, slashes energy bills, and delivers zero-carbon resilience.



#### 250A 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



#### 6-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-502B3BD	LEC-602B3BD	LEC-702B3BD	LEC-802B3BD	LEC-103B3BD	LEC-123B3BD
<b>PV Input</b>						
Max PV (Vdc)	1000					
Isc PV (A)	22.5	22.5	22.5	22.5/22.5	45/22.5	45/22.5
Max. PV input current/strings (A)	18	18	18	18/18	36/18	36/18
Number MPPT trackers	1			2		
MPPT range (Vdc)	200~800					
Vdc range @ full power (Vdc)	350~800					
PV Max (kW)	10	12	14	16	20	24
<b>Battery (charge/discharge)</b>						
Battery type	Li-ion/Lead-acid					
Battery norma voltage (Range) (Vdc)	48V(40-60V)					
Max charge/discharge current (A)	120	125	150	190	210	250
Max charge/discharge power (W)	5000	6000	7000	8000	10000	12000
<b>AC Grid (input and output)</b>						
Normal AC voltage (VAC)	380/400(3W+N+PE)					
Frequency (Hz)	50/60					
Max. cont output current (A)	8.3	10	11.6	13.3	16.7	20
Max. cont output power (W)	5000	6000	7000	8000	10000	12000
Max. cont. apparent power (VA)	5500	6600	7700	8800	11000	13200
Power factor (adjustable)	0.8 leading to 0.8 lagging					
<b>AC Load Output (stand alone)</b>						
Normal voltage (VAC)	380/400(3W+N+PE)					
Frequency (Hz)	50/60					
Nominal current (A)	8.3	10	11.6	13.3	16.7	20
Max. cont. power (W)	5000	6000	7000	8000	10000	12000
Overload capability (off grid)	>200% for 15 sec					
Output power factor (off grid)	0.8 leading to 0.8 lagging					
Output current harmonic distortion	THD<3%(Nonlinear load); THD<1.5%(Linear load)					
<b>Others</b>						
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)					
Dimensions D*W*H (mm)	475*683*256					
Weight (kg)	38					
Altitude (m)	2000					

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