

# LESSO

## LEC-12kW

### Residential Hybrid Inverter



The LEC-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-123B3BD-AT
<b>PV Input</b>	
Max PV (Vdc) (absolute Max.)	1000V
Isc PV (absolute Max.) (A)	45A/22.5A
Max. PV input current/strings (A)	36A/18A
Number MPPT trackers	2
MPPT range (Vdc)	200~800
Vdc range @ full power (Vdc)	350~800
PV Max (W)	24000
<b>Battery (charge/discharge)</b>	
Battery type	Li-ion/Lead-acid
Battery norma voltage (Range) (Vdc)	48V(40-60V)
Max charge/discharge current (A)	250
Max charge/discharge Power (W)	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)	20
Max.cont output power (W)	12000
Max.cont apparent power (VA)	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 curent (A)	20
Max.cont power (W)	12000
Overload capability (off grid)	>200% for 15sec
Output power factor (off grid)	1~(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)
Package size (H×W×D) (mm)	760×540×365
Gross weight (kg)	43.2
Machine size (H×W×D) (mm)	683×475×256
Net weight (kg)	38
Altitude (m)	2000

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