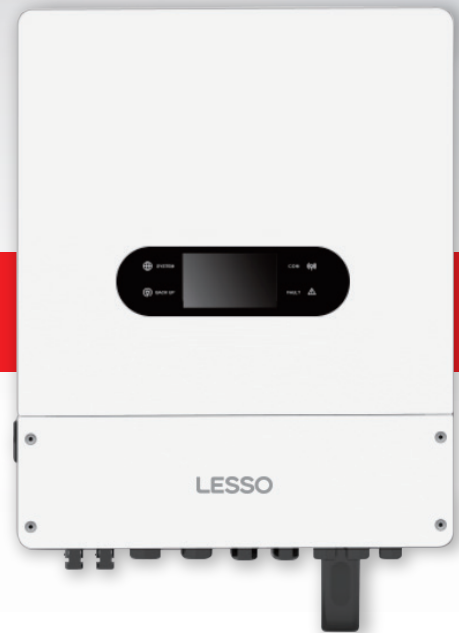


LESSO

LEC-ABN Series

Residential Hybrid Inverter

3-8kW | Single phase



The LEC-ABN Series (3-8kW) delivers a powerful and adaptive solution for residential solar storage, combining high efficiency, robust protection, and intelligent energy management. Designed for homes in high electricity-cost regions, it maximizes solar self-consumption, slashes energy bills, and ensures uninterrupted backup power during outages.



190A 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



4-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-302A 3BN	LEC-362A 3BN	LEC-402A 3BN	LEC-462A 3BN	LEC-502A 3BN	LEC-602A 3BN	LEC-702A 3BD	LEC-762A 3BD	LEC-802A 3BD
PV Input									
Max input voltage (V)	500								
Isc PV (A)	22.5	22.5/22.5	22.5/22.5	22.5/22.5	22.5/22.5	22.5/22.5	37.5/22.5	37.5/22.5	37.5/22.5
Max input current (A)	18	18/18	18/18	18/18	18/18	18/18	30/18	30/18	30/18
Number of MPPT channels	1			2					
MPPT range (Vdc)	150~450								
Vdc range @ full power (Vdc)	240~425								
Max input PV power (VA)	6000	7200	8000	9200	10000	12000	14000	15200	16000
Battery (charge/discharge)									
Battery type	Li-ion/Lead-acid								
Rated battery voltage	48V(44-57V)								
Max charge/discharge current (A)	75	90	100	110	120	120	175	190	190
Max charge/discharge power (W)	3300	3960	4400	5000	5500	6000	7000	7600	8000
AC Grid (input and output)									
Rated AC voltage (VAC)	230(single phase)								
Rated frequency (Hz)	50(49-51default) (47-53 adjustable)								
Max. output current (A)	15	18	20	22	25	27	35	38	40
Max. output power (W)	3300	3960	4400	5000	5500	6000	7000	7600	8000
Max. apparent power (VA)	3300	3960	4400	5000	5500	6000	7700	8360	8800
Power factor (adjustable)	1~(0.8 leading to 0.8 lagging)								
AC Load Output (stand alone)									
Rated voltage (VAC)	230(single phase)						220/230(single phase)		
Rated frequency (Hz)	50						50/60		
Rated current (A)	14	16	18	21	23	27	35	38	40
Max. output power (W)	3000	3600	4000	4600	5000	6000	7000	7600	8000
Overload capability (off grid)	>200% for 15 sec								
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)								
Others									
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)	198*427*554								
Weight (kg)	20								
Altitude (m)	2000								

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