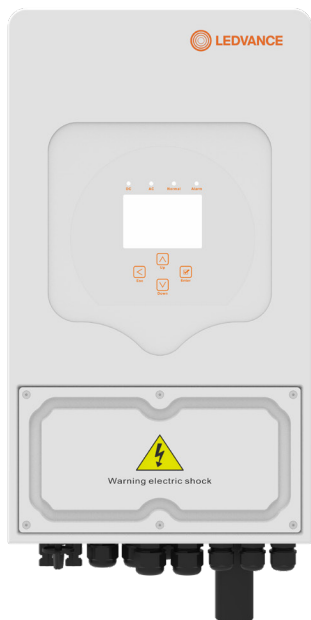




LHS-LV-3.6/5/6K F1

Single Phase Hybrid Inverter

- Colorful touchable display LCD screen, IP65 protection degree
- DC couple and AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current of 90/120A/135A
- 6 time periods setting for battery charging/discharging
- Support energy storage from diesel generator

Model	LHS-LV-3.6K	LHS-LV-5K	LHS-LV-6K
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Battery Input Data

Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	40-60		
Max. Charging Current (A)	90	120	135
Max. Discharging Current (A)	90	120	135
External Temperature Sensor	Yes		
Charging Curve	3 Stages / Equalization		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		

PV String Input Data

Max. DC Input Power (W)	4680	6500	7800
Rated PV Input Voltage (V)	370 (125-500)		
Start-up Voltage (V)	125		
MPPT Voltage Range (V)	150-425		
Full Load DC Voltage Range (V)	300-425		
PV Input Current (A)	13+13		
Max. PV Isc (A)	17+17		
No. of MPP Trackers	2		
No. of Strings per MPP Tracker	1+1		

AC Output Data

Rated AC Output Active Power (W)	3600	5000	6000
Max AC Output Active Power (W)	3960	5500	6600
AC Output Rated Current (A)	16.4/15.7	22.7/21.7	27.3/26.1
Max. AC Output Current (A)	18/17.2	25/23.9	30/28.7
Max. Continuous AC Passthrough (A)	35		
Peak Power (off grid)	2 time of rated power, 10 S		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Power Factor	1		
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac		
Grid Type	Single Phase		
Total Harmonic Distortion (THD)	<3% (of nominal power)		
DC Current Injection	<0.5% In		

Model	LHS-LV-3.6K	LHS-LV-5K	LHS-LV-6K
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Efficiency

Max. Efficiency	97.60%		
Euro Efficiency	96.50%		
MPPT Efficiency	99.90%		

Protection

Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection		
Output Over Voltage Protection	DC Type II/AC Type III		

Certifications and Standards

Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150		
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

General Data

Operating Temperature Range (°C)	-40-60 °C, >45 °C Derating		
Cooling	Smart Cooling		
Noise (dB)	≤30 dB		
Communications with BMS	RS485; CAN		
Weight (kg)	22.5		
Size (mm)	330x580x232 (WxHxD)		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	10 Years		