

# LM HI-4/5/6/8/10/12-25



Hybrid Inverter 4-12kW

## KEY FEATURES



### Maximized Energy Harvesting

- 150% DC oversizing boosts solar capture
- 110% unbalanced output enhances self-consumption
- Continuous 110% AC overloading sustains power
- Smooth transition to backup power ensures continuity during power outages



### Engineered for Versatility

- Wide 135-750V range fits diverse batteries
- 120% max backup @60s handles overloads
- IP65 protects both indoors and outdoors
- Silent 25dB operation for comfort



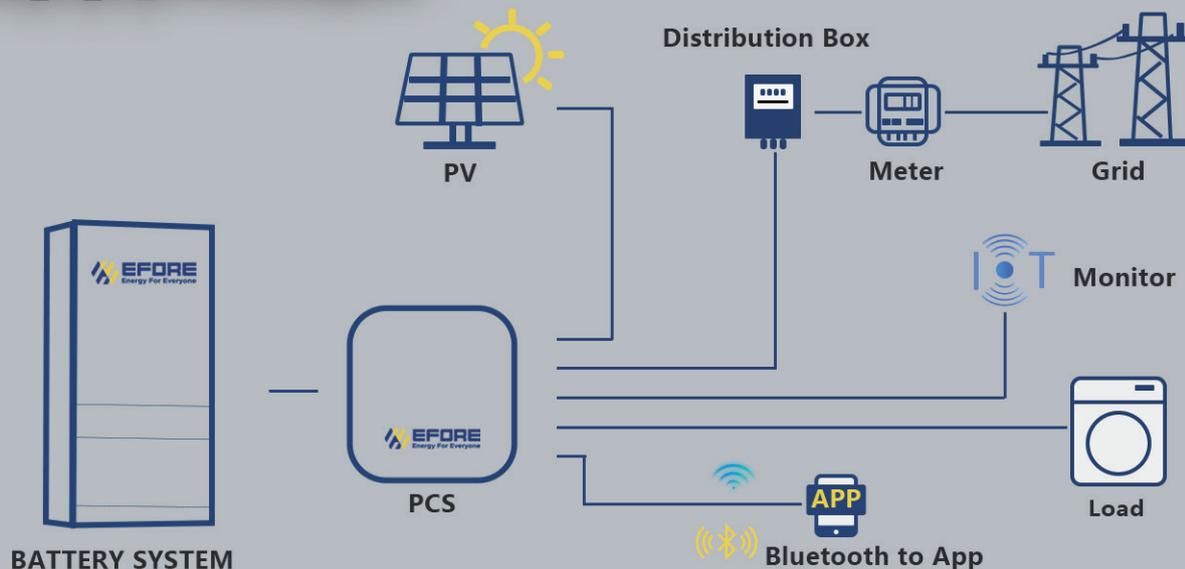
### Intelligent Energy Dynamics

- Five work modes for diverse use
- SuperToU Station Management: Supports flexible and customizable operation modes.
- Centralized smart management for efficiency
- Supports diesel generators for diverse energy sourcing
- Supports VPP functionality for advanced grid interaction



### Simplified Interaction

- Remote upgrades maintain system health
- Efore I-light for quick status checks
- OLED and App for easy control
- The newly enhanced Efore EMS platform for peak intelligent energy management



# TECHNICAL SPECIFICATIONS

Model	LM HI-4-25	LM HI-5-25	LM HI-6-25	LM HI-8-25	LM HI-10-25	LM HI-12-25
<b>PV Input</b>						
Recommended Max. Input Power [kW]	6.00	7.50	9.00	12.00	15.00	18.00
Start-up Voltage [V]	135					
Max. DC Input Voltage* [V]	1000*					
Rated DC Input Voltage [V]	620					
MPPT Voltage Range* [V]	200-950*					
No. of MPP Trackers	2					
No. of DC Inputs per MPPT	1/1					
Max. Input Current [A]	15-15					
Max. Short-circuit Current [A]	20/20					
<b>Battery Side</b>						
Battery Type	Lithium Battery (with BMS)					
Battery Voltage Range [V]	135-750					
Maximum Charging/Discharge Current [A]	25/25					
<b>Grid Side</b>						
Rated Output Power [kW]	4.00	5.00	6.00	8.00	10.00	12.00
Max. Output Apparent Power [kVA]	4.40	5.50	6.60	8.80	11.00 <sup>1)</sup>	13.20
Max. Input Apparent Power** [kVA]	8.00	10.00	12.00	16.00	16.50	16.50
Max. Charging Power of Battery [kW]	4.00	5.00	6.00	8.00	10.00	12.00
Rated AC Voltage [V]	3L/N/PE; 220/380V;230/400V;240/415V					
Rated AC Frequency [Hz]	50/60					
Max. Output Current [A]	6.70	8.30	10.00	13.30	16.50 <sup>2)</sup>	20.00
Power Factor	0.8 leading ...0.8 lagging					
Max. Total Harmonic Distortion	<3% @Rated output power					
DCI	<0.5%In					
<b>Back-up Side</b>						
Rated Output Power [kW]	4.00	5.00	6.00	8.00	10.00	12.00
Max. Output Apparent Power [kVA]	4.40	5.50	6.60	8.80	11.00	13.20
Max. Output Current [A]	6.70	8.30	10.00	13.30	16.50 <sup>2)</sup>	20.00
On/Off-grid Switching Time [ms]	<10ms					
Rated Output Voltage [V]	3L/N/PE; 220/380V;230/400V;240/415V					
Rated Output Frequency [Hz]	50/60					
Voltage Harmonic Distortion	<3% @Linear load					
<b>Efficiency</b>						
Max. Efficiency	98.1%	98.1%	98.1%	98.2%	98.2%	98.2%
European Efficiency	97.3%	97.3%	97.3%	97.4%	97.4%	97.4%
<b>Protection</b>						
Integrated Protection	DC reverse polarity protection / Battery input reverse connection protection / Insulation resistance protection / Surge protection / Over-temperature protection / Residual current protection / Islanding protection / AC over-voltage protection / Overload protection / AC short-circuit protection					
<b>General Data</b>						
Over Voltage Category	PV: II Main: III					
Dimensions [W×H×D mm]	534×418×210					
Weight [KG]	26					
Protection Degree	IP65					
Standby Self-Consumption [W]	<15					
Topology	Transformerless					
Operating Temperature Range [°C]	-30~60					
Relative Humidity [%]	0~100					
Operating Altitude [m]	3000 (>3000m Derating)					
Cooling	Natural Convection					
Noise Level [dB]	<25					
Display	OLED & LED					
Communication	CAN, RS485, WiFi/LAN (Optional)					

\* PV Max. Input voltage is 950V without battery, or 850V with battery, otherwise inverter will be waiting;

\*\* Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and charge the battery;

1) G98: 10.5kVA; 2) G98: 16.00A