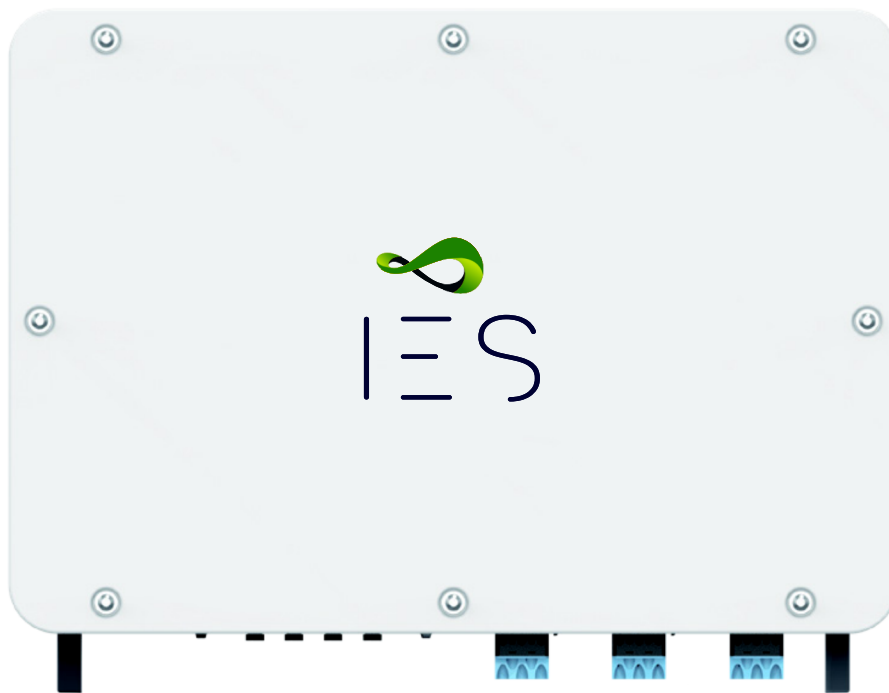


INVERTER - HYBRID

IES 50-HI



Maximize Energy Harvesting

100% unbalanced output enhances self consumption, 150A charging/discharging for efficient energy transfer, 20A PV input per string, 4 MPP trackers, smooth transition to back up power ensure continuity during power outages



Intelligent Energy Dynamic

5 work modes for diverse use, 6 charge/discharge intervals optimize control, centralized smart management for efficiency, supports diesel generators for diverse energy sourcing



Engineered for Versatility

Max 4 PCS parallel operation, 120% max backup @60s handles overloads, IP65 protects both indoors and outdoors, supports half wave loading



Simplified Interaction

Remote upgrades maintain system health, light for quick status checks, OLED and App for easy control, peak intelligent energy management

Inverter: Hybrid		IES-50-HI
Recommended Max. Input Power	75.0kW	
Start-up Voltage	135V	
Max. DC Input Voltage	1000V	
Rated DC Input Voltage	620V	
MPPT Voltage Range	200-850V	
No. of MPP Trackers	4	
No. of DC Inputs per MPPT	2	
Max. Input Current	40×4A	
Max. Short-circuit Current	50×4A	
BATTERY SIDE		
Battery Voltage Range	135-840V	
Maximum Charging/Discharge Current	150/150A	
GRID SIDE		
Rated Output Power	50.0kW	
Max. Output Apparent Power	55.0kVA	
Max. Input Apparent Power	60.0kVA	
Max. Charging Power of Battery	50.0kW	
Rated AC Voltage	3L/N/PE, 220/380V; 230/400V; 240/415V	
Rated AC Frequency	50Hz / 60Hz	
Max. Output Current	83.0A	
Power Factor	0.8 Leading ...0.8 Lagging	
Max. Total Harmonic Distortion	<3% @Rated Output Power	
DCI	<0.5%In	
BACK-UP SIDE		
Rated Output Power	50.0kW	
Max. Output Apparent Power	55.0kVA	
Max. Output Current	83.0A	
On/Off-grid Switching Time	<20ms	
Rated Output Voltage	3/N/PE, 220/380V; 230/400V; 240/415V	
Rated Output Frequency	50Hz / 60Hz	
Peak Output Apparent Power	60kVA, 10s	
Voltage Harmonic Distortion	<3% @Linear load	
GENERATOR SIDE		
Max. Input Apparent Power	60.0kVA	
Max. Charging Power of Battery	50.0kW	
Rated AC Voltage	3/N/PE, 220/380V; 230/400V; 240/415V	
Rated AC Frequency	50Hz / 60Hz	
Max. Input Current	87.0A	
Max. Efficiency	98.8%	
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		
GENERAL DATA		
Over Voltage Category	PV: II Main: III	
Dimensions (W×H×D)	860 × 590 × 290mm	
Weight	80kg	
Protection Degree	IP65	
Standby Self-consumption	<15W	
Topology	Transformerless	
Operating Temperature Range	-30~60°C	
Scalability	4 in Parallel	
Operating Altitude	3000m (>3000m derating)	
Cooling	Smart fan	
Noise Level	<40dB	
Display	OLED & LED	
Communication	CAN, RS485, WiFi/LAN (Optional)	