



HYBRID INVERTER MZ-IVH5000L



HIGH YIELD

- Max. efficiency 97.6%
- Dual MPPTs
- 7 Inch TFT
- Buid-in EMS



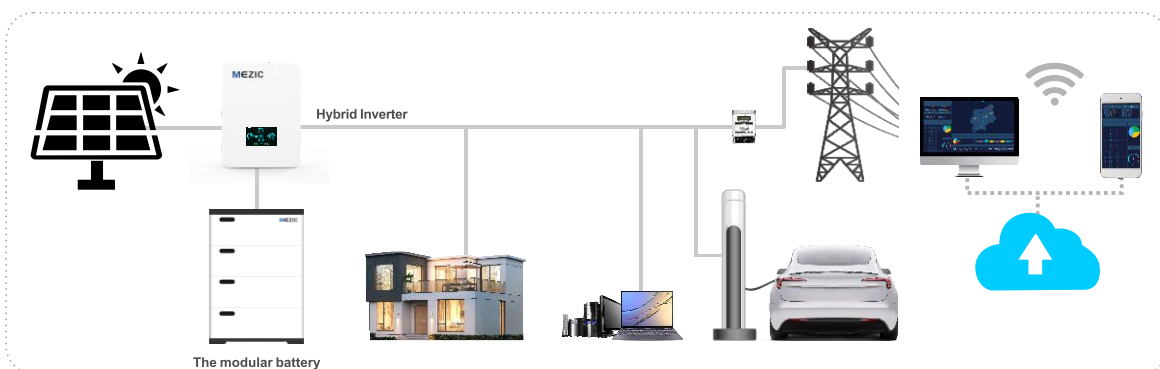
SAFETY AND RELIABILITY

- Type II SPD on AC&DC side
- Support export limitation
- AFCI function optional
- Natural cooling design



INTELLIGENT MAINTENANCE

- Compatible with Lead Acid batteries and lithium battery energy storage systems
- Remote configuration and upgrade



The modular battery

Product Specifications

Model	MZ-IVH3700L	MZ-IVH4600L	MZ-IVH5000L
Battery Input Data			
Battery Voltage Range (Vdc)		85-450	
Max. Continuous Discharging Current (A)		18	
Max. Charging Power/Max. Discharging Power (W)	3700	4600	5000
PV String Input Data			
Max. Input Power (W)	4500	5500	6000
MPPT Operating Voltage Range (Vdc)		125-550	
Max. Input Current per MPPT (A)		13.5	
Max. Short Circuit Current per MPPT (A)		15.2	
Number of MPPTs		2	
Number of Strings per MPPT		1	
AC Output Data (On-grid)			
Nominal Apparent Power Output to Utility Grid (VA)*	3700	4600	5000
Nominal Output Voltage (Vac)		230	
Nominal AC Grid Frequency (Hz)		50 /60 (±0.2%)	
Max. AC Current Output to Utility Grid (A)	17	22	23
AC Output Data (EPS)			
EPS Nominal Apparent Power (VA)	3700	4600	5000
Max. Output Current (A)	17	22	23
Nominal Output Voltage (Vac)		230 (±2%)	
Nominal Output Frequency (Hz)		50 /60 (±0.2%)	
Efficiency			
Max. Efficiency		97.6%	
European Efficiency		97.0%	
Max. Battery to AC Efficiency		96.6%	
MPPT Efficiency		99.9%	
Protection			
PV Insulation Resistance Detection		Integrated	
Residual Current Monitoring		Integrated	
Battery Reverse Polarity Protection		Integrated	
Anti-islanding Protection		Integrated	
AC Overcurrent Protection		Integrated	
AC Short Circuit Protection		Integrated	
AC Overvoltage Protection		Integrated	
General Data			
Operating Temperature Range (°C)		-25 +60	
Relative Humidity		0~95%	
Max. Operating Altitude (m)		4000	
Cooling Method		Nature Convection	
Display		TFT & APP	
Communication with BMS*3		RS485&CAN&WIFI	
Weight (kg)		18	
Dimension W×H×D (mm)		579 × 435 × 180	
Topology		Non-isolated	
Noise Emission (dB)		<35	
Self-consumption at Night (W)*4		<10	
Ingress Protection Rating		IP66	
Mounting Method		Wall Bracket	
Standard			
VDE-AR-N 4105: 2018	EN 50549-1: 2019	EN 50549-1: 2019	IEC/EN 62109-1/-2
IEC/EN 61000-3-2/-3	EN62479	EN301 489-1/-17	EN 300 328, (RED)
			IEC/EN 61000-6-1/-2/-3/-4