

High Voltage



HYBRID INVERTER MZ-IVH5000



HIGH YIELD

- Max. efficiency 97.6%
- Dual MPPTs



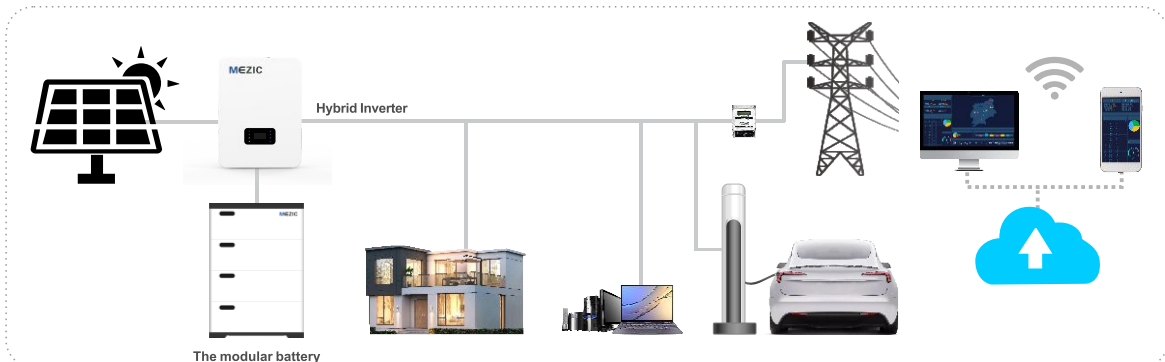
SAFETY AND RELIABILITY

- 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-IVH3700	MZ-IVH4600	MZ-IVH5000	MZ-IVH10K
Battery Input Data				
Battery Voltage Range (Vdc)		85-450		160Vdc-600Vdc
Max. Continuous Discharging Current (A)		18		25
Max. Charging Power/Max. Discharging Power (W)	3700	4600	5000	10000
PV String Input Data				
Max. Input Power (W)	4500	5500	6000	15K
MPPT Operating Voltage Range (Vdc)		125-550		200-850
Max. Input Current per MPPT (A)		13.5		13.5
Max. Short Circuit Current per MPPT (A)		15.2		16.9
Number of MPPTs		2		2
Number of Strings per MPPT		1		4
AC Output Data (On-grid)				
Nominal Apparent Power Output to Utility Grid (VA)*	3700	4600	5000	10K
Nominal Output Voltage (Vac)		230		400
Nominal AC Grid Frequency (Hz)		50/60(±0.2%)		50/60(±0.2%)
Max. AC Current Output to Utility Grid (A)	17	22	23	15.2
AC Output Data (EPS)				
EPS Nominal Apparent Power (VA)	3700	4600	5000	10000
Max. Output Current (A)	17	22	23	15.2
Nominal Output Voltage (Vac)		230(±2%)		380/400
Nominal Output Frequency (Hz)		50/60(±0.2%)		50/60(±0.2%)
Efficiency				
Max. Efficiency		97.6%		98.4%
European Efficiency		97.0%		97.5%
Max. Battery to AC Efficiency		96.6%		97.4%
MPPT Efficiency		99.9%		99.9%
Protection				
PV Insulation Resistance Detection		Integrated		Integrated
Residual Current Monitoring		Integrated		Integrated
Battery Reverse Polarity Protection		Integrated		Integrated
Anti-islanding Protection		Integrated		Integrated
AC Overcurrent Protection		Integrated		Integrated
AC Short Circuit Protection		Integrated		Integrated
AC Overvoltage Protection		Integrated		Integrated
General Data				
Operating Temperature Range (°C)		-25+60		-25+60
Relative Humidity		0~95%		0~95%
Max. Operating Altitude (m)		3000		3000
Cooling Method		Nature Convection		Nature Convection
Display		LCD & APP		LCD & APP
Communication with BMS*3		RS485&CAN&WIFI		RS485&CAN&WIFI
Weight (kg)		18		18.1
Dimension W×H×D (mm)		579 × 435 × 180		650 × 450 × 200
Topology		Non-isolated		Non-isolated
Noise Emission (dB)		<35		<35
Self-consumption at Night (W)*4		<10		<10
Ingress Protection Rating		Ip66		Ip66
Mounting Method		Wall Bracket		Wall Bracket
Standard				
VDE-AR-N 4105: 2018	EN 50549-1: 2019	EN 50549-1: 2019	IEC/EN 62109-1/-2	IEC/EN 61000-6-1/-2/-3/-4
IEC/EN 61000-3-2/-3	EN62479	EN301 489-1/-17	EN 300 328, (RED)	