

Single Phase Inverter	MH-HYIV3.0	MH-HYIV3.68	MH-HYIV3.8	MH-HYIV4.0	MH-HYIV4.6	MH-HYIV5.0	MH-HYIV5.0	MH-HYIV6.0	MH-HYIV8.0
	-SHE	-SHE	-SHE	-SHE	-SHE	-SHE	-SHE-BE	-SHE	-SHE
Ingress protection	IP66								
Protection class	Class I								
Pollution degree	PD3								
Over voltage category	III (MAINS), II (DC)								
Operating temperature range[°C]	-20~+60(derating at +45)								
Max. operation altitude[m]	<3000								
Humidity	0-100%, No Condensing								
Storage temperature[°C]	-40~+70								
Typical noise emission[dBA]	<30								
Communication with BMS	CAN								
Communication with Meter	RS485								
Self-consumption at night [W]	<25								
User Interface	LED,APP (LCD Optional)								
Warranty[Years]	10								
Dimension (W*H*D) [mm]	710*420*240								
Weight[KG]	26.0								
Cooling Concept	Natural Convection								
Topology	Non-isolated								
Communication interfaces	Meter/CT,CAN,RS485,WIFI(External)								
HMI	APP								
PV connector	MC4 (4-6mm2)								
AC connector	Quick Plug								
Battery connector	Quick Plug								
Certification	IEC/EN 62109-1&2, IEC 62477-1, IEC 61000-6-1/2/3/4,IEC62920,IEC 61000-4-16/18/29, IEC 60529,IEC 60068, IEC 61683,EN50530, CEI 0-21,VDE4105, ISO 13849, IEC62443								

Battery Pack	5KWh Battery Pack	10KWh Battery Pack	15KWh Battery Pack	20KWh Battery Pack
Component	Base+1 Module	Base+2 Module	Base+3 Module	Base+4 Module
Nominal Battery Pack Energy[KWh]	5.12	10.24	15.36	20.48
Available Battery Pack Energy[KWh]	4.76	9.52	14.28	19.05
Nominal Battery Cell Capacity[Ah]	100			
Nominal Voltage[V]	230			
Nominal Charging Current[A]	20			
Nominal Discharging Current[A]	20			
Communication	CAN			
User Interface	LED			
Ingress Protection	NEMA 4X			
Cooling Concept	Natural Convection			
Operating Temperature	-20°C ~ 55°C (For Both Charging & Discharging)			
Storage Temperature	-20°C ~ 55°C			
Humidity	5% ~ 95%			
Altitude	2000			
Cycle Life	6000			
Warranty[Years]	10			
Dimension[mm]	710×430×170	710×800×170	710×1170×170	710×1540×170
Weight[Kg]	54	104	154	204

Battery Pack	20KWh Battery Pack	25KWh Battery Pack	30KWh Battery Pack	35KWh Battery Pack	40KWh Battery Pack
	- Parallel	- Parallel	- Parallel	- Parallel	- Parallel
Component	2*Base+4*Modules	2*Base+5*Modules	2*Base+6*Modules	2*Base+7*Modules	2*Base+8*Modules
Nominal Battery Pack Energy[KWh]	20.48	25.6	30.72	35.84	40.96
Available Battery Pack Energy[KWh]	19.05	23.81	28.57	33.32	38.08
Nominal Battery Cell Capacity[Ah]	100				
Nominal Voltage[V]	230				
Nominal Charging Current[A]	20				
Nominal Discharging Current[A]	20				
Communication	CAN				
User Interface	LED				
Ingress Protection	NEMA 4X				
Cooling Concept	Natural Convection				
Operating Temperature	-20°C ~ 55°C (For Both Charging & Discharging)				
Storage Temperature	-20°C ~ 55°C				
Humidity	5% ~ 95%				
Altitude	2000				
Cycle Life	6000				
Warranty[Years]	10				
Dimension[mm]	710× (850+800) ×170	710× (850+1170) ×170	710× (1220+1170) ×170	710× (1590+1170) ×170	710× (1960+1170) ×170
Weight[Kg]	104+104	104+154	154+154	204+154	254+154

**Remark:**

- \*1: The grid feed in power for VDE4105 is limited 4600VA.
- \*2: Battery charging current is limited 25A and power is limited 6000W.
- \*3: The machine may be damaged if PV port exceeds this voltage, full power operation voltage should be less than 480V, 480V-540V for limited power operation.
- \*4: Battery port boot voltege must be greater than 95V.
- \*5: The power is 6000W accordtng to the grid port.
- \*6: The value will appear when the grid is charing battery and support EPS load.



**HIENERGY SERIES  
G2 SINGLE PHASE RESS**  
Single-Phase Solution

