



Environmental Limit	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	
Mechanical Parameter	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
	Batthey 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

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 according to the grid port.

*6: The value will appear when the grid is charging battery and support EPS load.



Single-Phase Solution



51.68_B

190 K+

277

198



4.66 B



A/A3/A

199

36

Midea HICONICS

ODM VALUE CHAIN
A REPEATABLE PATH FOR EXCELLENCE IN QUALITY DELIVERY

GLOBAL R&D STRATEGY

4 Research Institutes **33** R&D Centers **50+** Core Laboratory

25% Masters & PhDs Aesthetics & Design Center

BILLION LEVEL SUPPLY CHAIN

27.6 B Procurement Volume 100K+ Supplier System Top 5 Supplier Resources 100% Quality Sampling

INTELLIGENT MANUFACTURING

50+ Years Manufacturing Experience

40 Global Manufacture Centers

100 K GMP Cleanroom

Inhouse Production Lines

Lighthouse / Digital Factory

QUALITY CONTROL

130_M Dollars Investment

1st in Industry to Conduct:

CSA Cooperative Sightings Lab

UL/CE Certificates

 **SUPERIOR PERFORMANCE**

- DC Input Current Up to 20A
- Up to 200% PV Input Power
- Up to 3 MPPT per PCS
- Shadow Scan For Optimal Production

 FLEXIBLE APPLICATION

- Smart Swap Battery
- AC Couple, 6-Period TOU & Peak Shaving Functionality
- String Monitoring & IV Curve Diagnosis
- Installation < 15 min & Commissioning < 5 min

INTEGRATED CONTROL

- <10ms On-Grid to Off-Grid Transition
- Up to 6 PCS Parallel Operation
- VPP Ready for Various Application
- Smart Midea Heat Pump Control

TRUSTED RELIABILITY

- ISO 13849 Function Safety & IEC 62443 Cyber Security
- 8 Level Cell Safety Protection
- IP66 Design for Outdoor Application
- AFCI Integrated for Higher Safety

PRODUCT PARAMETER

PV Input	Single Phase Inverter	MH-HYIV3.0 -SHE	MH-HYIV3.68 -SHE	MH-HYIV3.8 -SHE	MH-HYIV4.0 -SHE	MH-HYIV4.6 -SHE	MH-HYIV5.0 -SHE	MH-HYIV5.0 -SHE-BE	MH-HYIV6.0 -SHE	MH-HYIV8.0 -SHE	
	Max. PV array power[W]	6000	7360	7600	8000	9200	10000	10000	12000	16000	
	Max. open circuit voltage[V]						1000				
	Max. input current per string[A]						20				
	Max. short circuit current per string[A]						25				
	MPPT voltage range[V]						80-500				
	Start operating voltage[V]						100				
	No. of MPP tracks						2	3			
	String per MPP tracker						1/1	1/1/1			

BAT Input	Battery type					LFP				
	Max. charge/discharge power [W]	3000	3600	3800	4000	4600	5000	5000	6000	8000
	Battery voltage range [V]					320-495				
	Max. charge/discharge current [A] ¹ ²					25				

AC Grid Input	Nominal Apparent Power from Utility Grid (VA)	6000	7360	7600	8000	9200	10000	10000	12000	12000
	Max. Apparent Power from Utility Grid (VA)	6000	7360	7600	8000	9200	10000	10000	12000	12000
	Nominal AC current[A]	13.6/13	16.4/15.7	17.3/16.6	18.2/17.4	21/20	22.7/21.7	45.4	27.3/26	34.8/36.4
	Max AC current[A]	27.3	33.5	34.6	36.4	41.8	45.4	45.4	50	50
	Nominal grid voltage[V]	L/N/PE 230Va.c								
	Nominal grid frequency[Hz]	50/60								

AC Grid Output	Nominal AC output power[W]	3000	3680	3800	4000	4600	5000	5000	6000	8000
	Max. AC output power[W]	3300	3680	4180	4400	5000	5500	5000	6600	8800
	Max apparent power to Utility Grid [VA]	3300	3680	4180	4400	5000	5500	5000	6600	8800
	Nominal grid voltage[V]	L/N/PE 230Va.c								
	Nominal grid frequency[Hz]	50/60								
	Max output AC current[A]	15	18.2	19	20	22.7	25	22.7	30	36.4
	Nominal output AC current[A]	13.6/13	16.4/15.7	17.3/16.6	18.2/17.4	21/20	22.7/21.7	22.7/21.7	27.3/26	34.8/36.4
	Displacement power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)								
THDI[%]	<3@Rated power									

[illegible][illegible]