

# HICONCS

A member of Midea group

## H iconics Eco-energy Drive Technology Co., Ltd.

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Series Name	Powerinfi					
Technical Data	MH-HYIV5.0-THE-AU	MH-HYIV6.0-THE-AU	MH-HYIV8.0-THE-AU	MH-HYIV10.0-THE-AU	MH-HYIV12.0-THE-AU	MH-HYIV15.0-THE-AU
<b>PV Input</b>						
Max. input power [W]	10000	12000	16000	20000	24000	30000
Max. input voltage [V]	1000					
Rated input voltage [V]	650					
MPPT voltage range [V]	180-850					
MPPT voltage range for rated power[V]	400~850	400~850	400~850	333~850	400~850	500~850
Startup voltage [V]	200					
Max. input current per MPPT [A]	20/20			20/20/20		
Max. short circuit current per MPPT [A]	25/25			25/25/25		
Number of MPPTs / PV stringsper MPPT	1/1			1/1/1		
Backfeed Current [A]	0					
Overvoltage Category (OVC)	OVC II					
<b>Battery data</b>						
Battery Type	Li-Ion					
Battery voltage range [V]	320-495					
Max. charge/discharge current [A]@350V	25/14.9	25/17.9	25/23.9	37/29.9	37/35.9	46.8/44.9
Overvoltage Category (OVC)	OVC II					
<b>AC Grid Side (On-grid)</b>						
Rated output power [W]	5000	6000	8000	9900	12000	15000
Rated/Max. output apparent power [VA]	5000	6000	8000	9900	12000	15000
Rated grid voltage [V] / frequency [Hz]	400V, 50/60 Hz, 3L/N/PE					
Max. input apparent power from grid [VA]	10000	12000	16000	20000	24000	29600
Rated output current [A]	7.2	8.7	11.5	14.4	17.3	21.7
Max. input current from grid [A]	14.4	17.4	23.0	28.8	34.6	43.0
Normal Operating Frequency Range Fn [Hz]	45-55/55-65					
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
l <sub>i</sub> THD [%]	<3@Rated power					
Overvoltage Category (OVC)	OVC III					
<b>Backup port</b>						
Rated power [W]	5000	6000	8000	10000	12000	15000
Rated/Max. output apparent power without utility grid [VA]	5000	6000	8000	10000	12000	15000
Rated grid voltage [V] / frequency [Hz] Max	400V, 50/60 Hz, 3L/N/PE					
Rated output current [A]	7.2	8.7	11.5	14.4	17.3	21.7
Max.output peak power[W]/duration[s]	10000,10s	12000,10s	16000 , 10s	20000,10s	24000,10s	24000,10s
Switch time to backup mode [ms]	<10ms					
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
Overvoltage Category (OVC)	OVC III					
<b>EFFICIENCY</b>						
MPPT efficiency [%]	99.9	99.9	99.9	99.9	99.9	99.9
Max. efficiency / Euro efficiency [%]	97.5 / 95.5	97.5 / 95.9	97.5 / 96.5	97.5 / 96.8	97.5 / 96.9	97.5 / 97.2
Safety protection feature	LVRT, HVRT, Anti-islanding protection, AC output overvoltage / undervoltage protection, AC short circuit protection, AC overcurrent protection, Leakage current protection, DC / AC surge protection, PV insulation resistance detection, PV reverse polarity protection, PV input overvoltage protection, Battery reverse polarity protection, Earthing fault protection, DC arcing detection and protection					
<b>System data</b>						
Dimension (W*H*D) [mm]	710*495*255					
Weight [kg]	40±3					
Topology	Non-isolated					
Operating temperature range [°C]	-20~+60(derating at +45)					
Protective Class	Class I					
Pollution degree (PD)	PD2 (Inside)/PD3 (Outside)					
Relative humidity	0 ~ 100%					

Max. operation altitude [m]	≤3000
Ingress protection	IP66
Cooling method	Natural Convection
User interface	LED, APP
Standard warranty [years]	10
Country of manufacturer: China	
Importer Information	
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