



Hiconics Eco-energy Drive Technology Co., Ltd.

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Made in China

A member of Midea group

Technical Data	MH-HYIV10.0-SHE-AU	MH-HYIV12.0-SHE-AU
PV Input		
Max. input power [W]	20000	24000
Max. input voltage [V]		600
Rated input voltage [V]		360
MPPT voltage range [V]		80-550
Startup voltage [V]		100
Max. input current per MPPT [A]		20/20/20/20
Max. short circuit current per MPPT [A]		25/25/25/25
Number of MPPTs / PV string sper MPPT		4
Backfeed current [A]		0
Overvoltage category (OVC)		II
Battery Data		
Battery type		LFP
Battery voltage range [V]		320-480
Max. charge/discharge current [A]@330V		35/30.5
Overvoltage category (OVC)		II
AC Grid Side (On-grid)		
Rated output power [W]	9999	12000
Max. output apparent power [VA]	9999	12000
Max. input apparent power from grid [VA]	9999	12000
Rated output current [A]	43.4	52.2
Rated grid voltage [V] / frequency [Hz]	230V, 50/60 Hz, L/N/PE	
Max. input current from grid [A]	63	
Normal operating frequency range Fn [Hz]	45-55/55-65	
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
I.THD [%]	<3@Rated power	
Overvoltage category (OVC)	III	
Backup Port		
Rated apparent power [VA]	10000	12000
Rated power [W]	10000	12000
Max. output apparent power without utility grid [VA]	10000	12000
Rated output current [A]	43.4	52.2
Max.output peak power[W]/duretion [s]	20000,10s	24000,10s
Switch time to backup mode [ms]	<10ms	
Rated grid voltage [V] / frequency [Hz]	230V, 50/60 Hz, L/N/PE	
Power Factor	~1 (-0.8leading ... 0.8lagging)	
OVC category	III	
EFFICIENCY		
MPPT efficiency [%]	99.9	
Max. efficiency / Euro efficiency [%]	97.5/97.0	
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	
System Data		
Dimension (W•H•D) [mm]	710•395•257	
Weight [kg]	33±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	fan cooling	
User interface	LED, APP	
Standard warranty [years]	10	
Importer Information		
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