

HICONICS A member of Midea group Inverter series name: Power X1		Hiconics Eco-energy Drive Technology Co., Ltd. Address: No.3 Boxing 2nd Road, Economic and Technological Development Zone, 100176, Beijing, P.R. China Tel: +61 1300 457 098 E-mail: solar_service_au@midea.com Web: au.hiconics-global.com Made in China			
Model	MH-HYIV15.0-TH-S4-AU	MH-HYIV20.0-TH-AU	MH-HYIV25.0-TH-AU	MH-HYIV29.9-TH-AU	MH-HYIV30.0-TH-AU
PV Input					
Max. input power [W]	30000	40000	50000	59800	60000
Max. input voltage [V]	1000				
Rated input voltage [V]	650				
MPPT voltage range [V]	160-850				
Startup voltage [V]	180				
Max. input current per MPPT [A]	36/36	36/36	36/36/36	36/36/36	36/36/36
Max. short circuit current per MPPT [A]	45/45	45/45	45/45/45	45/45/45	45/45/45
Number of MPPTs/Number of PV strings per MPPT	2 /2+2	2 /2+2	3/2+2+2	3/2+2+2	3/2+2+2
Battery data					
Battery type	Li-ion				
Max. charge / discharge power [W]	16500	22000	27500	30000	33000
Battery voltage range [V]	160-750	160-750	160-750	160-750	160-750
Max. charge / discharge current [A]	50	50	50+50	50+50	50+50
Number of battery input	1	1	2	2	2
AC Grid Side (On-grid)					
Rated / Max. output Power [W]	15000 / 15000	20000 / 20000	25000 / 25000	29900 / 29900	30000 /30000
Rated / Max. output apparent power [VA]	15000 / 15000	20000 / 20000	25000 / 25000	29900 / 29900	30000 /30000
Max. input apparent power from grid [VA]	30000	40000	50000	60000	60000
Rated grid voltage [V]	3L/N/PE, 230/400				
Rated grid frequency [Hz]	50 / 60				
Rated input / output current [A]	21.8 / 21.8	29.0 / 29.0	36.3 / 36.3	43.4 / 43.4	43.5 / 43.5
Max. input / output current [A]	45.5 / 25.0	60.6 / 33.4	76.0 / 41.7	90.0 / 45.4	90.0 / 50.0
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
I.THD [%]	<3@Rated power				
Backup port					
Rated / Max. output power [W]	15000 / 15000	20000 / 20000	25000 / 25000	29900 / 29900	30000 / 30000
Rated / Max. output apparent power [VA]	15000 / 15000	20000 / 20000	25000 / 25000	29900 / 29900	30000 / 30000
Rated output voltage [V]	3L/N/PE, 230/400				
Rated output frequency [Hz]	50 / 60				
Rated output current [A]	21.8	29	36.3	43.4	43.5
Max. output current [A]	25	33.4	41.7	45.4	50
Max. output peak power [W] / duration [s]	30000 (< 10s)	40000 (< 10s)	40000 (< 10s)	48000 (< 10s)	48000 (< 10s)
Switching from grid connected mode to standalone mode [ms]	< 10				
Output V. THD [%]	<3@Linear Load				
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
GEN Port (AC)					
Max. Input Apparent Power [VA]	30000	40000	50000	50000	50000
Nominal Voltage [V]	3L/N/PE, 230/400				
Max. Input Current [A]	43.3	57.7	72.2	72.2	72.2
Nominal Frequency [Hz]	50 / 60				
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
Efficiency					
Max. efficiency [%]	97.8%	97.8%	97.8%	97.8%	97.8%
Euro efficiency [%]	96.7%	97.2%	97.2%	97.2%	97.2%
Protection					
Safety protection feature	Anti-Islanding protection, DC reverse polarity protection, Insulation monitoring, Residual current monitoring, Type II DC / AC surge protection, DC arcing detection and protection (Optional), Three phase unbalanced output				
System data					
Dimension(W*H*D) [mm]	550*800*230				
Weight [kg]	46.5		50		
Topology	Non-Isolated				
Operating temperature range [°C]	-25~+60				
Relative humidity	0-100%				
Max. operation altitude [m]	3000				
Ingress protection	IP66				
Cooling method	Intelligent fan-cooling				
User interface	LED, APP, LCD				
Communication with BMS	CAN				
Typical noise emission [dB]	< 55	< 55	< 60	< 60	< 60
Standard warranty [years]	10				
Importer Information					
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