



POWERINFI SERIES G2 ALL-IN-ONE RESS

Single-Phase Solution

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

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

FLEXIBLE APPLICATION

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

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

PCS MODEL	MEI2-HS3H -AIO1	MEI2-HS3.68H -AIO1	MEI2-HS3.8H -AIO1	MEI2-HS4H -AIO1	MEI2-HS4.6H -AIO1	MEI2-HS5H -AIO1	MEI2-HS6H -AIO1	MEI2-HS8H -AIO1
PV Input								
Max. input power [W]	6000	7360	7600	8000	9200	10000	12000	12800
Max. input voltage [V]	550							
Rated input voltage [V]	360							
MPPT voltage range [V]	80-500							
Startup voltage [V]	100							
Max. input current per MPPT [A]	20/20							
Max. short circuit current per MPPT [A]	25/25							
Number of MPPTs / PV strings per MPPT	2 / 1+1							
Battery data								
Battery voltage range [V]	320-480							
Max. charge/discharge current [A]	12.5/9.5	12.5/11.7	12.5/12.1	12.5/12.7	18.7/14.6	18.7/15.9	18.7/19.1	25/25
AC Grid Side (On-grid)								
Rated output power [W]	3000	3680	3800	4000	4600	5000	6000	8000
Max. output apparent power [VA]	3000	3680	3800	4000	4600	5000	6000	8000
Max. input apparent power from grid [VA]	6000	7360	7600	8000	9200	10000	11500	11500
Rated grid voltage [V] / frequency [Hz]	230 V, 50 Hz							
Max. output current [A]	13.1	16.0	16.6	17.4	20.0	21.8	26.1	34.8
Max. input current from grid [A]	26.1	32.0	33.1	34.8	40.0	43.5	50	50
Power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)							
I.TH.D [%]	<3@Rated power							
Backup port								
Rated power [W]	3000	3680	3800	4000	4600	5000	6000	8000
Max. output apparent power [VA]	3000	3680	3800	4000	4600	5000	6000	8000
Rated grid voltage [V] / frequency [Hz]	230, 50 Hz							
Max. output current [A]	13.1	16	16.6	17.4	20	21.8	26.1	34.8
Max. output peak power [W] / duration [s]	6000,10s	7360,10s	7600, 10s	8000,10s	9200,10s	10000,10s	12000,10s	12000,10s
Switch time to backup mode [ms]	<10							
Efficiency								
Max. efficiency / Euro efficiency [%]	97.3 / 95.7	97.3 / 96.2	97.3 / 96.2	97.4 / 96.6	97.4 / 96.9	97.4 / 96.9	97.4 / 96.9	97.6 / 97.2
Protection								
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*232							
Weight [kg]	26.5							
Topology	Non-isolated							
Operating temperature range [°C]	-20~+60							
Relative humidity	0 ~ 100%							
Max. operation altitude [m]	≤3000							
Ingress protection	IP66							
Cooling method	Natural Convection							
User interface	LED, APP							
Standard warranty [years]	10.0							
Certification	IEC 62109-1:2010, IEC 62109-2:2011, EN 62109-1:2010, EN 62109-2: 2011, IEC 61000-6-1,2,3,4, EN62920, IEC 61000-4-16/18/29, AS4777.2, AS60947.3, ISO 13849, IEC62443, IEC 60529, IEC 60068, IEC61683, EN50530, CEI 0-21, VDE4105							

Battery System MODEL	MEBC2-B5H -AIO	MEBC2-B10H -AIO	MEBC2-B15H -AIO	MEBC2-B20H -AIO	MEBC2-B25H -AIO	MEBC2-B30H -AIO	MEBC2-B35H -AIO	MEBC2-B40H -AIO
Component	MH-BAT5.0-HPE	MH-BAT5.0-HPE*2	MH-BAT5.0-HPE*3	MH-BAT5.0-HPE*4	MH-BAT5.0-HPE*3/2	MH-BAT5.0-HPE*3/3	MH-BAT5.0-HPE*4/3	MH-BAT5.0-HPE*4/4
Sizes (W*H*T) [mm]	710*465*170	710*835*170	710*1205*170	710*1575*170	710*1260*170/ 710*835*170	7710*1260*170/ 710*1205*170	710*1630*170/ 710*1205*170	710*1630*170/ 710*1575*170
Weight[kg]	56.4	106.4	156.4	206.4	266.9	316.9	366.9	416.9
Rated / Useable Capacity [kWh]	5.12 / 5	10.24 / 10	15.36 / 15	20.48 / 20	25.6 / 25	30.72 / 30	35.84 / 35	40.96 / 40
Max. charge / discharge power [kW]	2.5@continuous 3.5@10minutes	2.5*2@continuous 3.5*2@10minutes	2.5*3@continuous 3.5*3@10minutes	2.5*4@continuous 3.5*4@10minutes	2.5*5@continuous 3.5*5@10minutes	2.5*6@continuous 20.5@10minutes	2.5*7@continuous 20.5@10minutes	20.5continuous
Max. continuous charge / discharge current [A]	6.9	13.8	20.7	27.6	34.5	41.4	48.3	50
Peak charge / discharge current [A] (10min)	8.54	17.08	25.62	34.16	42.7	50	50	50
Rated Voltag / Voltage rang [V]	410 / 362-464							
Operating ambient temperature	-20~50°C							
Operating ambient humidity	0~100% RH							
Cooling	Natural Convection							
Altitude	≤3000m							
Ingress Protection rate	IP66							
Mounting	Floor-Mounted / Wall-Mounted							
Cell type and Cell Room Temperature Cycle Life(25°C±2°C)	LFP, 6000 Cycles 0.5C/0.5C @70%SOH							
Standard warranty [years]	10 (The warranty is due whichever reached first of warranty period or Cell room Temperature Cycle Life)							
Certification	IEC62477-1, IEC62040-1, IEC62619, IEC 63056, ISO 13849, ISO 4892-4, UN38.3/MSDS, VDE-AR-N 2510-50, IEC61000-6-1/-2/-3/-4							