

POWERINFI SERIES ALL-IN-ONE RESIDENTIAL ENERGY STORAGE SOLUTIONS



Single-Phase
5-12kW / 7-84kWh

Three-Phase
5-15kW / 7-84kWh

Powerful

- 10ms Seamless Grid Transition
- 200% DC/AC Ratio
- 200% EPS Peak Output
- 100% Depth of Discharge

Smart

- Smart Fault Detection
- Dynamic Tariff Response
- VPP and TOU Ready
- Unbalanced 3-Phase Output

Flexible

- 20A PV Input & 3 MPPTs
- 6-Inverter Parallel Expansion
- Midea Heat Pump Integration
- 15-Min Installation & 10-Min OTA Upgrade

Reliable

- 8-Level Battery Protection
- Global Safety Standards Compliance
- Module-Level AFCI & IP66 Protection
- Insulation & Leakage Detection

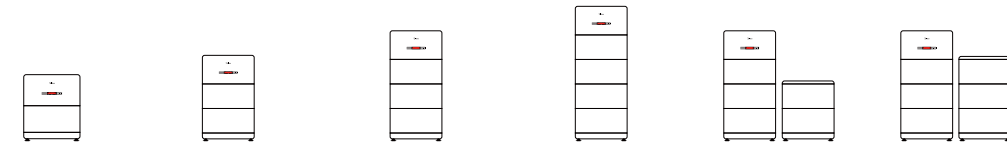
Single-Phase Hybrid Inverter 5-12kW

PCS Model	MEI2-HS5H -AIO1	MEI2-HS6H -AIO1	MEI2-HS8H -AIO1	MEI2-HS10H -AIO1	MEI2-HS12H -AIO1
DC Input (PV Side)					
Max. Input Power [W]	10000	12000	16000	20000	24000
Max. Input Voltage [V]	550			600	
Rated Input Voltage [V]	360			360	
MPPT Voltage Range [V]	80-500			80-550	
Startup Voltage [V]	100			100	
Max. Input Current per MPPT [A]	20/20		20/20/20	20/20/20/20	
Max. Short Circuit Current per MPPT [A]	25/25		25/25/25	25/25/25/25	
Number of MPPTs / PV Strings per MPPT	2 / 1+1		3 / 1+1+1	4/1+1+1+1	
Battery Connection					
Battery Voltage Range [V]	320-480				
Max. Charge / Discharge Current [A]*@330V	18.7/17.4	18.7/21.0	25/25	35/30.5	35/30.5
AC Output (Grid Port)					
Rated Output Power [W]	5000	6000	8000	10000/9990	12000
Max. Output Apparent Power [VA]	5000	6000	8000	10000/9990	12000
Max. Input Apparent Power from Grid [VA]	10000	11500	11500	14500	14500
Rated Grid Voltage [V] / Frequency [Hz]	220/230, 50/60				
Max. Output Current [A]	25	30	36.4	45.4	54.6
Max. Input Current from Grid [A]	45.5	50	50	63	63
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)				
I.THD [%]	<3@Rated power				
AC Output (Backup Port)					
Rated Power [W]	5000	6000	8000	10000	12000
Max. Output Apparent Power [VA]	5500	6600	8000	11000	12000
Rated Grid Voltage [V] / Frequency [Hz]	220/230, 50/60				
Max. Output Current [A]	25	30	36.4	45.4	54.6
Max. Output Peak Power [W] / Duration [s]	10000, 10s	12000, 10s	12000, 10s	20000, 10s	24000, 10s
Switch Time to Backup Mode [ms]	<10				
Efficiency					
Max. Efficiency / Euro Efficiency [%]	97.4 / 96.9	97.4 / 96.9	97.6 / 97.2	97.5/97.1	97.5/97.1
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					
Dimensions (W*H*D) [mm]	710*395*232			710*395*257	
Weight [kg]	27			33	
Topology	Non-Isolated				
Operating Temperature Range [°C]	-20~+60 (derating at +45)				
Relative Humidity	0 ~ 100%				
Max. Operation Altitude [m]	≤3000				
Ingress Protection	IP66				
Cooling Method	Natural Convection				
User Interface	LED, APP				
Standard & Certification					
Compliance	IEC 62109-1: 2010, IEC 62109-2: 2011, EN 62109-1: 2010, EN 62109-2: 2010, EN IEC 61000-6-1:2019, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021, EN IEC 61000-6-4:2019, EN 62920:2017+A11+A1 IEC 62920:2017+A1, IEC 61683, EN50530, IEC60068, AS/NZS4777.2, AS60947.3, EN50549-1/-10, IEC61727, IEC62116				
Warranty					
Standard Warranty [Years]	10				

Three-Phase Hybrid Inverter 5-15kW

PCS Model	MEI2-HT5H -AIO1	MEI2-HT6H -AIO1	MEI2-HT8H -AIO1	MEI2-HT10H -AIO1	MEI2-HT12H -AIO1	MEI2-HT15H -AIO1
DC Input (PV Side)						
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					
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 Strings per MPPT	2 / 1+1			2 / 1+1+1		
Battery Connection						
Battery Voltage Range [V]	320-495					
Max. Charge / Discharge Current [A]*@350V	25/16.5	25/19.8	25/25	37/32.9	37/37	46.8/46.8
AC Output (Grid Port)						
Rated Output Power [W]	5000	6000	8000	10000	12000	15000
Max. Output Apparent Power [VA]	5500	6600	8800	11000	13200	16500
Max. Input Apparent Power from Grid [VA]	10000	12000	16000	20000	24000	29600
Rated Grid Voltage [V] / Frequency [Hz]	380 / 400, 50 / 60					
Max. Output Current [A]	8.4	10	13.4	16.7	20	25
Max. Input Current from Grid [A]	15.2	18.2	24.3	30.4	36.5	43
Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)					
I.TH.D [%]	<3@Rated power					
AC Output (Backup Port)						
Rated Power [W]	5000	6000	8000	10000	12000	15000
Max. Output Apparent Power [VA]	5500	6600	8800	11000	13200	16500
Rated Grid Voltage [V] / Frequency [Hz]	380 / 400, 50 / 60					
Max. Output Current [A]	8.4	10	13.4	16.7	20	25
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]	<10					
Efficiency						
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
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						
Dimensions (W*H*D) [mm]	710*495*255					
Weight [kg]	36			40		
Topology	Non-Isolated					
Operating Temperature Range [°C]	-20~+60 (derating at +45)					
Relative Humidity	0 ~ 100%					
Max. Operation Altitude [m]	≤3000					
Ingress Protection	IP66					
Cooling Method	Natural Convection			Smart air cooling		
User Interface	LED, APP					
Standard & Certification						
Compliance	IEC 62109-1: 2010, IEC 62109-2: 2011, EN 62109-1: 2010, EN 62109-2: 2010, IEC 61000-6-1/2/3/4, EN62920, IEC 61000-4-16/18/29, IEC 61683, EN50530, CEI 0-21, VDE4105, AS/NZS4777.2, AS60947.3, EN50549-1/-10, TOR TypeA, NC RFG Type A, C10/C11, G98+G99+G100, IEC61727, IEC62116, SFS-EN50549-1, TR3.3.1, EIFS 2018:2, IEC63056, ETSI EN303645					
Warranty						
Standard Warranty [Years]	10					

Battery 7kWh

PowerInfi BAT		7.0				
Rated / Useable Capacity [kWh]		7.03/6.86				
Max. Charge / Discharge Power [kW]		3.5@continuous 4.9@15minutes				
Dimensions (W*H*T) [mm]		710×435×250				
Weight [kg]		81				
Max. Continuous Charge/ Discharge Current [A] (@30°C)		9.2				
Rated Voltage / Voltage Range [V]		410 / 350~560 720 / 620~950				
Room Temperature Cycle Life (25°C±2°C)		8000 Cycles 0.5C/0.5C @70%SOH				
Operating Ambient Temperature [°C]		-20~50				
Operating Ambient Humidity		0~100% RH				
Cooling		Natural Convection				
Altitude [m]		≤3000				
Ingress Protection Rate		IP66				
Mounting		Wall-Mounted / Floor-Mounted				
						
Number of Battery Modules [pcs]	1	2	3	4	5	6
Rated / Useable Capacity [kWh]	7.03/6.86	14.06/13.72	21.09/20.58	28.12/27.44	35.15/34.3	42.18/41.16
						
Number of Battery Modules [pcs]	7	8	9	10	11	12
Rated / Useable Capacity [kWh]	49.21/48.02	56.24/54.89	63.27 / 61.74	70.3 / 68.6	77.33 / 75.46	84.36 / 82.32

Notes: Our all-in-one system supports flexible battery capacity expansion, ranging from 7kWh to 84kWh depending on the model. Some capacity configurations are not listed above due to space constraints.

GATEWAY SERIES



- Automatic switching between Bypass mode and Grid mode
- Independent RS485 communication
- Support multiple units in parallel
- IP65 Protection Rating

Gateway

Model	MEI-EBU-63S-AU	MEI-EBU-100S-AU	MEI-EBU-63T-AU	MEI-EBU-63T30-AU
Grid (Inverter)				
Rated Voltage [V], Frequency [Hz]	220/230/240, 50/60	220/230/240, 50/60	380/400, 50/60	380/400, 50/60
Max. On-grid Current [A]	52.2	52.2 / 52.2	25	50
Max. Apparent Power [kVA]	12	24	16.5	33
Backup (Inverter)				
Rated Voltage [V], Frequency [Hz]	220/230/240, 50/60	220/230/240, 50/60	380/400, 50/60	380/400, 50/60
Max. Off-grid Current [A]	52.2	52.2/52.2	25	50
Max. Apparent Power [kVA]	12	24	16.5	33
Grid				
Rated Voltage [V], Frequency [Hz]	220/230/240, 50/60	220/230/240, 50/60	380/400, 50/60	380/400, 50/60
Max. Current [A]	63	100	63	63
Backup Load				
Rated Voltage [V], Frequency [Hz]	220/230/240, 50/60	220/230/240, 50/60	380/400, 50/60	380/400, 50/60
Max. Current [A]	63	100	63	63
Non-Backup Load				
Rated Voltage [V], Frequency [Hz]	220/230/240, 50/60	220/230/240, 50/60	380/400, 50/60	380/400, 50/60
Max. Current [A]	63			
General Data				
Max. Parallel	1	2	1	1
Dimensions (W*H*D) [mm]	560*480*172	560*480*172	560*480*172	560*480*172
Weight [kg]	≤18	≤25	≤25	≤25
Storage Temperature Range [°C]	-40 ~ 70			
Operating Temperature Range [°C]	-30 ~ 60			
Relative Humidity Range	0-100%			
Max. Operation Altitude [m]	3000			
Cooling	Nature			
Ingress Protection Rating	IP65			
Communication	CT (Standard) / METER (Optional)			
Installation Method	Wall-Mounted			