

SIW200H M070/M080/M090/M100/M105 W10



SINGLE-PHASE HYBRID INVERTER



Harness the power of the sun day and night with the ground-breaking range of Hybrid Inverters.

Full of advanced features and compatible with our own range of high-voltage batteries. Is a new class of Hybrid Inverter.



Easy Installation

Flexible configuration, plug and play set-up, fuseless topology.



High Voltage

Includes high-voltage batteries for maximum round-trip efficiency.



IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.



BATTERY EXPANSION

EASY UPGRADE



Expand your system easily by simply adding additional batteries. There are two battery size options, and maximum of 9 batteries per inverter, providing up to 41.93 kWh of storage capacity.

Driving efficiency and sustainability



SIW200H M070/M080/M090/M100/M105 W10



SINGLE-PHASE HYBRID INVERTER

MODEL	SIW200H M070 W10	SIW200H M080 W10	SIW200H M090 W10	SIW200H M100 W10	SIW200H M105 W10
ELECTRICAL CHARACTERISTICS					
Battery Type	Li-Ion				
Battery Voltage Range [V]	85 ~ 480				
Recommended Battery Voltage [V]	300VDC				
Max. Charge Current [A]	50				
Max. Discharge Current [A]	50				
Communication Interfaces	CAN / RS485				
Reverse Connect Protection	YES				
INPUT PV (FOR KH ONLY)					
Max. Recommended DC Power [W]	10500	12000	13500	15000	15000
Max. DC Voltage [V]	600				
Normal DC Operating Voltage [V]	360				
Max. Input Current (Input A / Input B) [A]	16 / 16 / 16 ¹⁾		16 / 16 / 16 / 16 ¹⁾		
Max. Short Circuit Current (Input A / Input B) [A]	20 / 20 / 20		20 / 20 / 20 / 20		
Max. Inverter Backfeed Current to the Array [mA]	0				
MPPT Voltage Range [V]	80 ~ 500				
Start-up Voltage [V]	75				
No. of MPP Trackers	3		4		
Strings Per MPP Tracker	1				
DC Disconnection Switch	Yes				
OUTPUT AC					
Normal AC Power [VA]	7000	8000	9000	10000	10500
Max. Apparent AC power [VA]	7700	8800	9900	10500	10500
Rated Grid Voltage (AC Voltage Range) [V]	220 / 230 / 240 (180 ~ 270)				
Rated Grid Frequency [Hz]	50 / 60, ±5				
Normal AC Current [A]	30.4	34.8	39.1	43.5	45.7
Max. AC Current [A]	33.5	38.3	43.0	45.7	47.7
Displacement Power Factor	0.8 Leading to 0.8 Lagging				
Total Harmonic Distortion (THDi, Rated Power) [%]	<3				
INPUT AC					
Max AC Power [VA]	14000	16000	18000	18000	18000
Max. AC Current [A]	60.9	69.5	78.3	78.3	78.3
Rated Grid Voltage (AC Voltage Range) [V]	220 / 230 / 240 (180 ~ 270)				
Rated Grid Frequency [Hz]	50 / 60, ±5				
EPS OUTPUT (WITH BATTERY)					
Max. EPS Power [VA]	7000	8000	9000	10000	10500
EPS Rated Voltage [V], Frequency [Hz]	220 / 230 / 240, 50 / 60				
Max. EPS Current [A]	31.8	36.4	40.9	45.5	47.7
EPS Peak Power [W]	10000, 60s		12000, 60s		
Switch Time [ms]	<20				
Total Harmonic Distortion (THDv, Linear Load) [%]	<2				
Parallel Operatio	Yes @max10PCS				
EFFICIENCY					
Euro-efficiency [%]	97.40				
Max. Efficiency [%]	97.80				
Max. Battery Charge Efficiency (PV to BAT) (@Full Load) [%]	98.50				
Max. Battery Charge / Discharge Efficiency (BAT to AC) (@Full Load) [%]	97.00				
PROTECTION					
PV Reverse Polarity Protection	YES				
Batter Reverse Protection	YES				
Anti-islanding Protection	YES				
Output Short Protection	YES				
Leakage Current Protection	YES				
Insulation Resistor Detection	YES				
Over-current Protection / Over-temperature Protection	YES				
Over Voltage Category	III (AC side), II (DC side)				
AC/DC Surge Protection	Type II / Type II				
STANDARD					
Safety	IEC62109-1 / IEC62109-2 / IEC 62477-1				
EMC	EN 61000-6-1 / EN 61000-6-2 / EN 61000-6-3				
Cetification	G99 / NRS 097-2-1 and so on				
ENVIRONMENT					
Standby Consumption [W] (Ldle)	<15				
Ingress Protection	IP65				
Protective Class	Class I				
Operating Temperature Range [°C]	-25..... +60 (Derating at +45)				
Humidity [%]	0 ~ 95 (Non-condensing)				
Altitude [m]	<2000				
Storage Temperature [°C]	-40..... +70				
Noise Emission (Typical) [dB]	<30				
DIMENSION AND WEIGHT					
Dimensions (W * H * D) [mm]	450*527*208				
Weight [kg]	29 (KH)				
Cooling Method	Natural				
Topology	Non-isolated				
Communication	Meter, WIFI, 4G (Optional), DRM, USB, CT, RS485				
LCD Display	Backlight 16*4 Character				

Note: 1) The maximum generating power of each pv string is limited to 3300 watts.

Specifications and key features contained in this datasheet may differ slightly from our actual products due to continuous product innovation and improvement. WEG S.A. reserves the right to make necessary adjustments to the information described in this datasheet at any time without prior notice.



Grupo WEG - Automation Business Unit
 Jaraguá do Sul - SC - Brazil
 Phone: +55 47 3276 4000
automacao@weg.net
www.weg.net