

SIW200H M030/M037/M046/M050/M060 W00



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 41.93kWh of storage capacity.

Driving efficiency and sustainability



SIW200H M030/M037/M046/M050/M060 W00



SINGLE-PHASE HYBRID INVERTER

MODEL	SIW200H M030 W00	SIW200H M037 W00	SIW200H M046 W00	SIW200H M050 W00	SIW200H M060 W00
INPUT PV					
Max. Input Power [W]	4500	5500	6900	7500	9000
Max. Input Voltage [V]			600		
Start-up Input Voltage [V]			75		
Rated Input Voltage [V]			360		
MPPT Operating Voltage Range [V]			80 ~ 550		
Max. Input Current [A]			16 / 16		
Max. Short-circuit Current [A]			20 / 20		
No. of Independent MPP Trackers	2	2	2	2	2
No. of Strings per MPP Tracker	1	1	1	1	1
BATTERY CONNECTION					
Battery Type	Lithium battery (LFP)				
Battery Voltage [V]	80 ~ 480				
Max. Charge/Discharge Current [A]	40				
Communication Interface	CAN(communicate with inverter, upgrade BMS)				
AC INPUT AND OUTPUT (GRID)					
Max. AC Input Power [VA]	6000	7680	9200	10000	12000
Max. AC Input Current (per phase) [A]	27.3	34.9	41.8	45.5	54.5
Rated Output Power [W]	3000	3680	4600	5000	6000
Max. Output Apparent Power [VA]	3300	4048/3680	5060	5500	6600
Rated Output Current (per phase) [A]	13.6	16.7/16	20.9	22.7	27.3
Rated Output Current (per phase) [A](For AUS)	13.0	16.0	20.0	21.7	26.1
Max. Output Current [A]	15.0	18.4	23.0	25.0	30.0
Rated Grid Voltage [V]	220/230/240				
Rated Grid Frequency [Hz]	50/60				
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
THDi [%]	<3 @rated power				
EPS OUTPUT (WITH BATTERY)					
Max. Output Apparent Power [VA]	3000	3680	4600	5000	6000
Peak Output Apparent Power (60s) [VA]	3600	4400	5500	6000	7200
Max. Current (per phase) [A]	13.6	16.7	20.9	22.7	27.3
Rated Output Voltage [V]	220/230/240				
Rated Output Frequency [Hz]	50/60				
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)				
THDv (linear Load) [%]	<2 @rated power				
Parallel operation [PCS]	10				
Switch time [ms]	<20				
EFFICIENCY					
Euro Efficiency	95.26	95.70	96.23	96.30	96.33
Max. Efficiency	97.01	97.08	97.04	97.08	97.08
Max. Battery Charge Efficiency (PV to BAT) (@full load)	98.50				
Max. Battery Discharge Efficiency (BAT to AC) (@full load)	97.00				
PROTECTION					
Insulation Monitoring	YES				
Residual Current Monitoring	YES				
DC Reverse Polarity Protection	YES				
Anti-islanding Protection	YES				
AC Short-circuit Protection	YES				
AC Overcurrent/Overvoltage Protection	YES				
DC Switch	YES				
Battery Wack-up Function	YES				
SPD	DC: Type II / AC: Type III				
GENERAL DATA					
Dimensions (WxHxD) [mm]	434*418*185				
Weight [kg]	22				
Installation	Wall-Mounted				
Topology	Non-isolated				
Cooling Method	Natural				
Noise Emission [dB]	35				
Max. Operating Altitude [m]	2000				
Operating Temperature Range [°C]	-25 ~ 60				
Humidity (No Condensation) [%]	0 ~ 100				
Ingress protection	IP65				
Standby consumption[W]	<10				
Monitoring Module	WiFi, LAN(optional), 4G(optional), GPRS (optional)				
Communication	RS485, DRM, Ripple Control, USB, CAN				
Display	LCD, App, Website				
STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)					
Safety	EN 62109-1, EN 62109-2				
EMC	EN 61000-6-2, EN 61000-6-3				
Grid Regulation	EN50549-1, C10 / 11, VDE-AR-N 4105, G98, G99, CEI 0-21, NRS 097-2-1, AS / NZS 4777.2				

Note: 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