



DEVICE SHORT NAME	MFS5536HBS	MFS5596HBS	MFS6896HBS
Inverter AC output			
Output power (continuous) at 25°C	5500 W	5500 W	6800 W
Overload 30 min / 60 sec at 25°C	7000 W / 9500 W	7000 W / 9500 W	8500 W / 12000 W
Output power (continuous) at 40°C	4500 W	4500 W	6000 W
Maximum output current 60 seconds (rms)	40 A	40 A	53 A
Output frequency (selectable)	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Output voltage	230 Vac	230 Vac	230 Vac
Idle consumption search mode	< 7 W	< 7 W	< 7 W
Input DC voltage range	40 to 64 V (48 V Nominal)	40 to 64 V (48 V Nominal)	40 to 64 V (48 V Nominal)
Maximum input DC current	150 A	150 A	180 A
Charger DC output			
Maximum output charge current	110 A	110 A	140 A
Output charge voltage range	40 - 64 V (48 V Nominal)	40 - 64 V (48 V Nominal)	40 - 64 V (48 V Nominal)
Charge control	Three stage, two stage, boost, custom	Three stage, two stage, boost, custom	Three stage, two stage, boost, custom
Charge temperature compensation	Battery temperature sensor included	Battery temperature sensor included	Battery temperature sensor included
Power factor corrected charging	0.98	0.98	0.98
Compatible battery types	Gel, optional: LiON	Gel, optional: LiON	Gel, optional: LiON
Battery bank range	3.6 kWh	9.6 kWh	9.6 kWh
AC input			
AC 1 (grid) input current (selectable limit)	3 - 60 A (56 A default)	3 - 60 A (56 A default)	3 - 60 A (56 A default)
AC 2 (generator) input current (selectable limit)	3 - 60 A (56 A default)	3 - 60 A (56 A default)	3 - 60 A (56 A default)
Automatic transfer relay rating / typical transfer time	60 A / 8 ms	60 A / 8 ms	60 A / 8 ms
AC input voltage nominal	230 V +/- 3%	230 V +/- 3%	230 V +/- 3%
AC grid-tie output			
Grid sell on AC1 (max)	4.5 kVA	4.5 kVA	6.0 kVA
Grid sell current range on AC1 (selectable range)	0 to 20 A	0 to 20 A	0 to 27 A
Grid sell voltage range on AC1	205 to 262 Vrms (auto adjust entering sell mode)	205 to 262 Vrms (auto adjust entering sell mode)	205 to 262 Vrms (auto adjust entering sell mode)
Grid sell frequency range on AC1	48 to 51 Hz (auto adjust entering sell mode)	48 to 51 Hz (auto adjust entering sell mode)	48 to 51 Hz (auto adjust entering sell mode)
Grid sell power factor range (lead/lag)	0.5	0.5	0.5
Efficiency			
Peak	95.8%	95.8%	95.8%
General specifications			
Product dimensions (H x W x D)	1800 x 600 x 700 mm	1800 x 600 x 700 mm	1800 x 600 x 700 mm
IP degree of protection	IP20	IP20	IP20
Operating air temperature range	-25°C to 70°C (-13°F to 158°F) (power derated above 25°C (77°F))		
Warranty (Depending on the country of installation)	2 or 5 years	2 or 5 years	2 or 5 years
Features			
System monitoring and network communications	Available		
Intelligent features	Grid sell, peak load shave, generator support, prioritized consumption of battery or external DC energy		
Auxiliary port	0 to 12 V, maximum 250 mA DC output, selectable triggers		
Off-grid AC coupling	Frequency control		
Multi-unit operation	Single phase: up to four units in parallel, three phase: up to 12 units in multi-cluster configuration with external AC contractor		
Communication Module	Router VPN, Web Server		
Predictive Control Module	Optional		
Electric Vehicle Charger	Optional		
Regulatory Approval			
CE marked according to the following EU directives and standards:			
EMC directive	EN61000-6-1, EN61000-6-3, EN61000-3-2		
Low voltage directive	EN50178		
Safety	IEC 62109-1, IEC 62109-2, AS3100		
Grid interconnection	EN50438-2013		