

ESA Series

All-In-One Single Phase Storage Solution

Technical Data	GW5048-ESA
Battery Module Data	
Battery Type	Li-Ion
Battery Module Nominal Capacity(KWh)	5.4
Battery Module Weight(Kg)	49
Size (Width*Height*Depth mm)	400 x 484.2 x 226.2
Cycle Life(25°C)	>3500
Maximum Number of Battery Connections	2
Maximum Total Battery Capacity (KWh)	10.8
Battery Enclosure Data	
Weight (kg)	37
Size (Width*Height*Depth mm)	516 x 1205 x 280
Mounting	Wall Bracket
Protection Degree	IP54
Inverter Data	
Battery Input Data	
Nominal Battery Voltage (V)	48
Battery Voltage Range(V)	40~60
Maximum Charging Power (W)	4600
Maximum Discharging Power (W)	4600
Maximum Charging Current(A)	90
Maximum Discharging Current(A)	100
Battery Charging Method	Self-adaption to BMS
Battery Disconnect	Integrated 2 pole DC breaker 125A DC per pole
PV String Input Data	
Max. DC Input Power (W)	6500
Max. DC Input Voltage (V)	580
MPPT Range (V)	125~550
Start-up Voltage (V)	125
Min. Feed-in Voltage (V)* ¹	150
MPPT Range for Full Load (V)	215~500
Nominal DC Input Voltage (V)	360
Max. Input Current (A)	11/11
Max. Short Current (A)	13.8/13.8
No. of MPP Trackers	2
No. of Strings per MPP Tracker	1
Solar Array Switch	Integrated



Technical Data	GW5048-ESA	Technical Data	GW5048-ESA
AC Output Data (On-grid)		Protection	
Max. Apparent Power Output to Utility Grid (VA)* ²	4600/5100	Anti-islanding Protection	Integrated
Max. Apparent Power from Utility Grid (VA)	9200	PV String Input Reverse Polarity Protection	Integrated
Nominal Output Voltage (V)	230	Insulation Resistor Detection	Integrated
Nominal Output Frequency (Hz)	50/60	Residual Current Monitoring Unit	Integrated
Max. AC Current Output to Utility Grid (A)	22.8	Output Over Current Protection	Integrated
Max. AC Current From Utility Grid (A)	40	Output Short Protection	Integrated
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	Output Over Voltage Protection	Integrated
Output THDi (@Nominal Output)	<3%	General Data	
Grid disconnect	Integrated 2 pole 40A MCB	Operating Temperature Range (°C)	-25~60
AC Output Data (Back-up)		Relative Humidity	0~95%
Nominal Output Apparent Power (VA)	4600	Operating Altitude (m)	3000
Nominal Output Current (A)	20	Cooling	Nature Convection
Peak Output Apparent Power (VA)* ³	6900 (10 seconds maximum)	Noise (dB)	<25
Nominal Output Voltage (V)	230 (±2%)	User Interface	LED & APP
Nominal Output Frequency (Hz)	50/60 (±0.2%)	Communication with BMS	CAN
Output THDv (@Linear Load)	<3%	Communication with Meter	RS485
Back-up Loads AC Disconnect	Integrated 2 pole 25A MCB	Communication with Portal	Wi-Fi
Manual Back-up Load AC Bypass Switch	Integrated	Weight (kg)	44
Efficiency		Size (Width*Height*Depth mm)	516 X 832 X 290
Max. Efficiency	97.6%	Mounting	Wall Bracket
European Averaged Efficiency	97.0%	Protection Degree	IP65
Max. Battery to Load Efficiency	94.0%	Standby Self-Consumption (W)	<13
		Topology	Battery Isolation

*¹: When there is no battery connected, inverter starts feeding in only if string voltage is higher than 200V.

*²: 4600VA for VDE-AR-N4105, 5100VA for other country.

*³: Can be reached only if PV and battery power is enough.

*: Please visit GoodWe website for the latest certificates.