



Smart Control & Monitoring

- · Smart load control with dry contacts
- · Smart home integration with multi-protocol communications



Superb Safety & Reliability

- · Optional AFCI on DC side1
- · Remote Shutdown



Friendly & Thoughtful Design

- · Plug & Play
- · Elegant and compact design



Flexible & Adaptable Applications

- · Maximum 16A DC input current per string and high-power module compatibility
- · Strong backup power supply



Baltery Workings Range (V)	Technical Data	a 11 0000 E0 E0	anosso 25 25 6	**************************************	3-20 GW5000-ES-20 GV	10000111 20 2		111000011
Nominal Eathery Voltage (V)	Battery Input Data							
Nominal Eathery Voltage (V)	Battery Type*1				Li-lon			
Max. Continuous Directorying Current (A)** 60 75 60 120 60	Nominal Battery Voltage (V)				48			
Max. Charinus Biocharging Current (A)	Battery Voltage Range (V)				40 ~ 60			
Max. Charging Power (W)								60
Max. Disput Data								60
Max. Input Power (VI)*								300
Max. Input Voltage (N)	Max. Discharging Power (W)	3200	3900	3200	5300	3200	6300	320
Max. Injust Voltage (Y)	PV String Input Data							
Max. Injust Voltage (Y)	Max. Input Power (W)*2	4500	5400	5400	7500	7500	9000	900
Silent-up Voltage (V)								
Nominal Input Voltage (V)	MPPT Operating Voltage Range (V)				60 ~ 550			
Max. Short Current per MPPT (A)	Start-up Voltage (V)				58			
Max. Short Circuit Current per MPFT (A)	Nominal Input Voltage (V)							
Number of MPP Trackers								
Number of Sirings per MPPT								
AC Output Data (On-grid)		1	2	2		2	2	2
Namical Apparent Power (Unit) Gerd (MA)					1			
Max. Apparent Power Culput to Utility Grid (W) 3000 3680 3680 5000	AC Output Data (On-grid)							
Max. Apparent Power Culput to Utility Grid (W) 3000 3680 3680 5000	Nominal Apparent Power Output to Utility Grid (VA)	3000	3680	3680	5000 ^{*3}	5000 ^{*3}	6000*3	6000
Max. Apparent Power from Utility Grid (WA) 6000 7360 3680 10000 5000 10000 500	Max. Apparent Power Output to Utility Grid (VA)	3000			5000*3		6000 ^{*3}	600
Output Voltage Range (V)	Max. Apparent Power from Utility Grid (VA)	6000	7360	3680		5000	10000	600
Nominal AC Grid Frequency (Hz)								
Max. AC Current Chulput to Utility Gird (A) 13.6 16.7 16.7 22.7 22.7 27.3 27 Naminal Output Current (A) 13.0 16.0 16.0 21.7 21.7 26.1 26 Power Factor								
Max. AC Current From Utility Grid (A)								
Nominal Output Current (A)								
Power Factor								
Max. Total Harmonic Distortion		13.0						26.
Back-up Nominal Apparent Power (VA) 3000 3680 3680 5000 5000 6000				~ I (Adjusta		u.6 lagging)	
Back-up Nominal Apparent Power (VA) 3000 3680 3680 5000 5000 6000 6000 6000					< 5 / 0			
Max. Output Apparent Power (VA) 3000 (60000010sec) 3680 (73600010sec) 3680 (73600010sec) 5000 (60000010sec) 5000 (6000010sec) 5000 (60000010sec) 5000 (600000000000000000000000000000000	AC Output Data (Back-up)							
Max. Output Current (A) 13.6 16.7 16.7 22.7 22.7 27.3 27 Nominal Output Voltage (V) 50.5 (60) 201/230 /240 201/240 /240 <td< td=""><td>Back-up Nominal Apparent Power (VA)</td><td>3000</td><td>3680</td><td>3680</td><td>5000</td><td>5000</td><td>6000</td><td>600</td></td<>	Back-up Nominal Apparent Power (VA)	3000	3680	3680	5000	5000	6000	600
Nominal Output Voltage (V)	Max. Output Apparent Power (VA)	3000 (6000@10sec)	3680 (7360@10sec)	3680	5000 (10000@10sec)	5000	6000 (10000@10sec)	600
Nominal Output Frequency (Ftz) S0 / 60	Max. Output Current (A)	13.6	16.7	16.7		22.7	27.3	27.
Sample S								
Efficiency 97.6% European Efficiency 96.7% Max. Battery to AC Efficiency 95.5% MPPT Efficiency 99.9% Protection PV String Current Monitoring Integrated PV String Current Monitoring Integrated PV Insulation Resistance Detection Integrated PV Reverse Polarity Protection Integrated Anti-islanding Protection Integrated AC Overcurent Protection Integrated AC Surgerent Protection Integrated DC Surge Protection Integrated DC Surge Protection Integrated DC Surge Protection Type III AFCI Optional Remote Shutdown Integrated Operating Temperature Range (*C) General Data -25 ~ +60 Gelative Humidity 0 ~ 95% Max. Operating Altrude (m) 3000 (> 2000 Derating) Cooling Method Natural Convection Display LED, WLAN + APP Communication								
Max. Efficiency	Output IHDv (@Linear Load)				<3%			
European Efficiency	Efficiency							
Max. Battery to AC Efficiency 95.5% MPPT Efficiency 99.9% Protection PV String Current Monitoring Integrated PV Insulation Resistance Detection Integrated Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated AC Overcurrent Protection Integrated AC Overvoltage Protection Integrated AC Source Protection Integrated AC Surge Protection Integrated DC Switch Integrated DC Surge Protection Integrated AFCI Optional Remote Shutdown Integrated AFCI Optional Remote Shutdown Integrated Maccompan Optional Remote Shutdown Integrated Operating Temperature Range (°C) -25 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 3000 (>	Max. Efficiency				97.6%		,	
MPPT Efficiency 99.9% Protection PV String Current Monitoring Integrated PV Insulation Resistance Detection Integrated Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated AC Server Polarity Protection Integrated AC Short Circuit Protection Integrated AC Overvoltage Protection Integrated DC Surge Protection Integrated DC Surge Protection Type II AC Sourge Protection Type III AFCI Optional Remote Shutdown Integrated General Data Operating Temperature Range (°C) -25 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 3000 (>2000 Derating) Confign Method Natural Convection Display LED, WLAN + APP Communication with BMS CAN Communication with Meter RS485 Communication with Portal Will Fly ILAN / 4G Weight (kg) 19.6 20.8 20.0 21	European Efficiency	-			96.7%			
Protection PV String Current Monitoring Integrated PV Insulation Resistance Detection Integrated Residual Current Monitoring Integrated PV Reverse Polarity Protection Integrated ACT Reverse Polarity Protection Integrated ACT Overcurrent Protection Integrated DC Switch Integrated DC Switch Integrated DC Surge Protection Type II AC Surge Protection Type II ACT Overcurrent Protection Integrated DC Surge Protection Type III ACT Overcurrent Protection Type III ACT Overcurrent Protection Type III ACT Overcurrent Protection Integrated Central Policy 25 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Temperature Range (°C) -25 ~ +60 Relative Humidity 0					95.5%			
PV String Current Monitoring	MPPT Efficiency				99.9%			
PV String Current Monitoring	Protection							
PV Insulation Resistance Detection					Integrated			
Residual Current Monitoring								
PV Reverse Polarity Protection								
Anti-islanding Protection								
AC Overcurrent Protection Integrated AC Short Circuit Protection Integrated AC Overcultage Protection Integrated DC Switch Integrated DC Surge Protection Type II AC Surge Protection Type III AFCI Optional Remote Shutdown Integrated General Data Operating Temperature Range (°C) -25 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 3000 (>2000 Derating) Cooling Method Natural Convection Display LED, WLAN + APP Communication with BMS CAN Communication with Meter R5485 Communication with Portal WiFi / WiFi + LAN / 4G Weight (kg) 19.6 20.8 20.0 21.5 20.0 21.5 20 Dimension (W x H x D mm) 505.9 x 434.9 x 154.8 Topology Self-consumption at Night (W) <10								
AC Short Circuit Protection Integrated AC Overvoltage Protection Integrated DC Switch Type II DC Surge Protection Type III AC Surge Protection Type III AFCI Optional Remote Shutdown Integrated General Data Operating Temperature Range (°C) Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 3000 (>2000 Derating) Cooling Method Natural Convection Display LED, WLAN + APP Communication with BMS CAN Communication with Meter RS485 Communication with Portal WiFi / WiFi + LAN / 4G Weight (kg) 19.6 20.8 20.0 21.5 20.0 21.5 20 Dimension (W x H x D mm) 505.9 x 434.9 x 154.8 Topology Non-isolated Self-consumption at Night (W) <10			-					
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AC Surge Protection Type III AFCI Optional Remote Shutdown Integrated General Data Operating Temperature Range (°C) -25 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 3000 (>2000 Derating) Cooling Method Natural Convection Display LED, WLAN + APP Communication with BMS CAN Communication with Meter RS485 Communication with Portal WiFi / WiFi + LAN / 4G Weight (kg) 19.6 20.8 20.0 21.5 20.0 21.5 20 Dimension (W x H x D mm) 505.9 x 434.9 x 154.8 Topology Non-isolated Self-consumption at Night (W) <10 Ingress Protection Rating Mounting Method Wall Mounted								
AFCI Optional Remote Shutdown Integrated General Data Operating Temperature Range (°C) -25 ~ +60 Relative Humidity 0 ~ 95% Max. Operating Altitude (m) 3000 (>2000 Derating) Cooling Method Natural Convection Display LED, WLAN + APP Communication with BMS CAN Communication with Meter RS485 Communication with Portal WiFi / WiFi + LAN / 4G Weight (kg) 19.6 20.8 20.0 21.5 20.0 21.5 20 Dimension (W × H × D mm) 505.9 × 434.9 × 154.8 Topology Non-isolated Self-consumption at Night (W) <10 Ingress Protection Rating IP65 Mounting Method Wall Mounted								
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Max. Operating Áltitude (m) 3000 (>2000 Derating) Cooling Method Natural Convection Display LED, WLAN + APP Communication with BMS CAN Communication with Meter RS485 Communication with Portal WiFi / WiFi + LAN / 4G Weight (kg) 19.6 20.8 20.0 21.5 20.0 21.5 20 Dimension (W × H × D mm) 505.9 × 434.9 × 154.8			-					
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Communication with BMS CAN Communication with Meter RS485 Communication with Portal WiFi / WiFi + LAN / 4G Weight (kg) 19.6 20.8 20.0 21.5 20.0 21.5 20 Dimension (W × H × D mm) 505.9 × 434.9 × 154.8 Topology Self-consumption at Night (W) Non-isolated Self-consumption at Night (W) < 10 Ingress Protection Rating IP65 Mounting Method Wall Mounted					Natural Convection			
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Communication with Portal WiFi / WiFi + LAN / 4G Weight (kg) 19.6 20.8 20.0 21.5 20.0 21.5 20 Dimension (W × H × D mm) 505.9 × 434.9 × 154.8 Topology Non-isolated Self-consumption at Night (W) <10								
Weight (kg) 19.6 20.8 20.0 21.5 20.0 21.5 20 Dimension (W x H x D mm) 505.9 x 434.9 x 154.8 Topology Non-isolated Self-consumption at Night (W) <10								
Dimension (W x H x D mm) 505.9 x 434.9 x 154.8 Topology Non-isolated Self-consumption at Night (W) <10	Communication with Portal							
TopologyNon-isolatedSelf-consumption at Night (W)<10		19.6	20.8	20.0		20.0	21.5	20.
Self-consumption at Night (W) <10 Ingress Protection Rating IP65 Mounting Method Wall Mounted	Weight (kg)				$505.9 \times 434.9 \times 154.8$			
Ingress Protection Rating IP65 Mounting Method Wall Mounted	Weight (kg) Dimension (W × H × D mm)							
Mounting Method Wall Mounted	Weight (kg) Dimension (W × H × D mm) Topology				Non-isolated			
	Weight (kg) Dimension (W × H × D mm) Topology Self-consumption at Night (W)				Non-isolated <10			
	Weight (kg) Dimension (W × H × D mm) Topology Self-consumption at Night (W) Ingress Protection Rating				Non-isolated <10 IP65			

^{*1:} The actual charge and discharge current / power also depends on the battery.
*2: The max power is the actual power of PV.
*3: 4600 for VDE-AR-N4105 & NRS 097-2-1.

^{*:} Please visit GoodWe website for the latest certificates.
*: All pictures shown are for reference only. Actual appearance may vary.