



## 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



Technical Data	GW3000-ES-20	anotto 20 20 c					
Battery Input Data							
Battery Type <sup>*1</sup>				Li-lon			
Nominal Battery Voltage (V)				48			
Battery Voltage Range (V)				40 ~ 60			
Max. Continuous Charging Current (A)*1	60	75	60	120	60	120	60
Max. Continuous Discharging Current (A) <sup>11</sup>	60	75	60	120	60	120	60
Max. Charging Power (W) 1	3000	3600	3000	5000	3000	6000	3000
Max. Discharging Power (W)	3200	3900	3200	5300	3200	6300	3200
PV String Input Data							
Max. Input Power (W)*2	6000	7200	7200	10000	10000	12000	1200
Max. Input Voltage (V)				600			
MPPT Operating Voltage Range (V)				60 ~ 550			
Start-up Voltage (V)				58			
Nominal Input Voltage (V)				360			
Max. Input Current per MPPT (A)				16			
Max. Short Circuit Current per MPPT (A)				23			
Number of MPP Trackers	1	2	2	2	2	2	2
Number of Strings per MPPT				<u> </u>			
AC Output Data (On-grid)							
Nominal Apparent Power Output to Utility Grid (VA)	3000	3680	3680	5000 <sup>+3</sup>	5000 <sup>*3</sup>	6000 <sup>*3</sup>	6000
Max. Apparent Power Output to Utility Grid (VA)	3000	3680	3680	5000 <sup>*3</sup>	5000 <sup>*3</sup>	6000*3	6000
Max. Apparent Power from Utility Grid (VA)	6000	7360	3680	10000	5000	10000	6000
Nominal Output Voltage (V)				220 / 230 / 240			
Output Voltage Range (V)				170 ~ 280			
Nominal AC Grid Frequency (Hz)				50 / 60			
Max. AC Current Output to Utility Grid (A)	13.6	16.7	16.7	22.7	22.7	27.3	27.3
Max. AC Current From Utility Grid (A)	27.3	33.5	16.7	43.5	22.7	43.5	27.3
Nominal Output Current (A) Power Factor	13.0	16.0	16.0	21.7 ble from 0.8 leading to 0	21.7	26.1	26.1
Max. Total Harmonic Distortion			~ I (Aujusia	<3%	.o laggilig)		
				<b>V</b> 3 70			
AC Output Data (Back-up)							
Back-up Nominal Apparent Power (VA)	3000	3680	3680	5000	5000	6000	6000
Max. Output Apparent Power (VA)	3000 (6000@10sec)		3680	5000 (10000@10sec)	5000	6000 (10000@10sec)	6000
Max. Output Current (A)	13.6	16.7	16.7	22.7	22.7	27.3	27.3
Nominal Output Voltage (V)				220 / 230 / 240			
Nominal Output Frequency (Hz)				50 / 60			
Output THDv (@Linear Load)				<3%			
Efficiency							
Max. 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 Insulation Resistance Detection				Integrated			
Residual Current Monitoring				Integrated			
PV Reverse Polarity Protection				Integrated			
Anti-islanding Protection				Integrated			
AC Overcurrent Protection				Integrated			
AC Short Circuit Protection				Integrated			
AC Overvoltage Protection				Integrated			
DC Switch DC Surge Protection				Integrated Type II			
AC Surge Protection  AC Surge Protection				Type III			
AFCI				Optional			
Remote Shutdown				Integrated			
General Data				- 334			
Operating Temperature Range (°C)				-25 ~ +60			
Relative Humidity				0 ~ 95%			
Max. Operating Altitude (m)				3000 (>2000 Derating)			
Cooling Method Display				Natural Convection 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	20.0
Dimension (W × H × D mm)				505.9 × 434.9 × 154.8			
Topology				Non-isolated			
Торогоду				:10			
Self-consumption at Night (W)				<10			
Self-consumption at Night (W) Ingress Protection Rating				IP65			
Self-consumption at Night (W) Ingress Protection Rating Mounting Method				IP65 Wall Mounted			
Self-consumption at Night (W)				IP65			

<sup>\*1:</sup> 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.

<sup>\*:</sup> Please visit GoodWe website for the latest certificates.
\*: All pictures shown are for reference only. Actual appearance may vary.