



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-E3-20	-GW3000-E3-20 C	AAAAAAAAAAA	20 GW5000-ES-20 G	M-2000 INI-E9-	20- GW0000-ES-20 C	WOOOUN
Battery Input Data							
Battery Type*1	Li-lon / Lead-acid	Li-Ion / Lead-acid	Li-lon	Li-Ion / Lead-acid	Li-Ion	Li-Ion / Lead-acid	Li-lo
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)*1	60	75	60	120 5000	60 3000	120 6000	60
Max. Charging Power (W) Max. Discharging Power (W)	3000 3200	3600 3900	3000 3200	5300	3200	6300	3000
	3200		3200	3300	3200	0300	320
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) Start-up Voltage (V)				60 ~ 550 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				1			
AC Output Data (On-grid)							
Nominal Apparent Power Output to Utility Grid (VA	3000	3680	3680	5000 ^{*3}	5000 ^{*3}	6000*3	6000
Max. Apparent Power Output to Utility Grid (VA		3680	3680	5000 ^{*3}	5000 ^{*3}	6000 ⁺³	6000
Max. Apparent Power from Utility Grid (VA		7360	3680	10000	5000	10000	600
Nominal Output Voltage (V)				220 / 230 / 240			
Output Voltage Range (V)				170 ~ 280			
Nominal AC Grid Frequency (Hz)	10.0	10.7	10.7	50 / 60	00.7	07.0	07.0
Max. AC Current Output to Utility Grid (A) Max. AC Current From Utility Grid (A)	13.6 27.3	16.7 33.5	16.7 16.7	22.7 43.5	22.7 22.7	27.3 43.5	27.3 27.3
Nominal Output Current (A)	13.0	16.0	16.0	21.7	21.7	26.1	26.
Power Factor	10.0			ole from 0.8 leading to			20.
Max. Total Harmonic Distortion			(* 1-1)	<3%			
AC Output Data (Back-up)							
• • •	2000	0000	0000	F000	F000	0000	000
Back-up Nominal Apparent Power (VA) Max. Output Apparent Power (VA)	3000	3680 3680 (7360@10sec)	3680 3680	5000 5000 (10000@10sec)	5000 5000	6000 6000 (10000@10sec)	600
Max. Output Current (A)	13.6	16.7	16.7	22.7	22.7	27.3	27.3
Nominal Output Voltage (V)	10.0	10.7	10.7	220 / 230 / 240		27.0	27.0
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 AC Overvoltage Protection				Integrated 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				RS485			
Communication with Portal	10.0	20.0	00.0	WiFi / WiFi + LAN / 4G		04.5	00.1
Weight (kg) Dimension (W × H × D mm)	19.6	20.8	20.0	21.5 505.9 × 434.9 × 154.8	20.0	21.5	20.0
Topology				Non-isolated			
				<10			
Self-consumption at Night (W)							
Self-consumption at Night (W) Ingress Protection Rating	-			IP65			
				IP65 Wall Mounted			

^{*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.