EHR Series

Dual-MPPT, Single-Phase

Technical Data	GW3600-EHR	GW5000-EHR	GW6000-EHR
Battery Input Data*			
Battery Type	Li-Ion		
Battery Voltage Range(V)	85~450		
Start-up Voltage (V)	90		
Max. Charging/Discharging Current (A)	25/25		
Max. Charging/Discharging Power (W)	3600	5000	6000
Battery Ready Optional Function	YES	YES	YES
PV String Input Data			
Max. DC Input Power (W)	4800	6650	8000
Max. DC Input Voltage (V)	580	580	580
MPPT Range (V)	100~550	100~550	100~550
Start-up Voltage (V)	90		
Nominal DC Input Voltage (V)	380		
Max. Input Current (A)	12.5/12.5		
Max. Short Current (A)	15.2/15.2		
No. of MPP Trackers	2		
No. of Strings per MPP Tracker	1		
AC Output/Input Data (On-grid)			
Nominal Apparent Power Output to Utility Grid (VA)*[1]	3600	5000	6000
Max. Apparent Power Output to Utility Grid(VA)*[1]	3600	5000	6000
Max. Apparent Power from Utility Grid (VA)	7200(Charging 3.6kw,backup output 3.6kw)	10000(Charging 5kw,backup output 5kw)	12000(Charging 6kw,backup output 6kw)
Nominal Output Voltage (V)	230	230	230
Nominal Ouput Freqency (Hz)	50/60	50/60	50/60
Max. AC Current Output to Utility Grid (A)*[1]	16	21.7	26.1
Max. AC Current From Utility Grid (A)	32	43.4	52.2
Output Power Factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)		
Output THDi (@Nominal Output)	<3%		
Back-up Output Data (Back-up)*			
Max. Output Apparent Power (VA)	3600	5000	6000
Peak Output Apparent Power (VA)	4320, 60sec	6000, 60sec	7200, 60sec
Max. Output Current (A)	15.7	21.7	26.1
Automatic Switch Time (ms)	<10		
Nominal Output Voltage (V)	230 (±2%)		
Nominal Ouput Frequency (Hz)	50/60 (±0.2%)		
Output THDv (@Linear Load)	<3%		
Efficiency			
PV Max. Efficiency	97.6%		
PV Europe Efficiency	97.0%		
PV Max. MPPT Efficiency	99.9%		
Battery Charged By PV Max. Efficiency	98.0%		
Battery Charge/discharge From/To AC Max. Efficiency	96.6%		
Protection			
Anti-islanding Protection	Integrated	Integrated	Integrated
Battery Input Reverse Polarity Protection	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated
Grid Output Short Protection	Integrated	Integrated	Integrated
Output Over Voltage Protection	Integrated	Integrated	Integrated
General Data			
Operating Temperature Range (°C)	-35~60		
Relative Humidity	0~95%		
Operating Altitude (m)	4000		
Cooling	Nature Convection		
User Interface	LED & APP		
Communication with BMS	CAN		
Communication with Meter	RS485		
Communicaiton with Portal	Wi-Fi/Ethernet(Optional)		
Weight (kg)	17		
Size (Width*Height*Depth mm)	354*433*147		
Mounting	Wall Bracket		
Protection Degree	IP65		
Standby Self Consumption (W)	<10		
Topology	Transformerless		
Certifications & Standards			
Grid Regulation	AS/NZS 4777.2:2015; G98/1; CEI 0-21 VDE4105-AR-N	AS/NZS 4777.2:2015; G99/1; CEI 0-21 VDE4105-AR-N	
Safety Regulation	IEC62109-1&-2		
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-4-16, EN61000-4-18, EN61000-4-29		

*[1] The grid feed in power for AS/NZS 4777.2 is limited 4950VA & 21.7A.

*: An activation code is required when connecting to an approved lithium-Ion battery. It can be purchased from GoodWe's authorized dealers or distributors.
GoodWe only acknowledges the activation code purchased from our authorized dealers or distributors.
GoodWe's Smart Meter, an optional accessory, is able to monitor load consumption. It can be purchased through authorized dealers or distributors.