



ENWALL

BEYOND BATTERIES

TECHNICAL DATA SHEET



ENWALL DATA SHEET

FEATURES	ENWALL 5KW-8KWH	ENWALL 5KW-16KWH	ENWALL 10KW-16KWH
Battery Performance Specifications			
DC Energy (kWh)	8	16	16
Max. Charging Current (A)	160	216	216
Max. Discharging Current (A)	160	216	216
Charging Curve	3 Stages / Equalization (CC/CP/VP)		
Charging Strategy	Self-adaption to BMS		
DC Voltage (Nominal)	48Vdc		
Internal Resistance (mili Ohms)	<4		
Technology	Encapsulated Cell		
ESS Voltage Range (Vdc)	40-60		
Nominal Cell Voltage	6.4~6.6Vdc / Cell (Encapsulated) 1/2 + 0.12V Envelope		
PV String Input Data			
Max. DC Input Power(W)	6,500	6,500	13,000
PV Input Current(A)	26Adc (13x2)	26Adc (13x2)	52Adc (13x4)
Max.PV Isc(A)	34Adc (17x2)	34Adc (17x2)	68Adc (17x4)
No. of MPPT Trackers	2	2	4
No. of Strings Per MPPT Tracker	2	2	4
PV Input Voltage(V)	370V (125V~500V)		
MPPT Range(V)	150-425Vdc		
Full Load DC Voltage Range	300-425Vdc		
Start-up Voltage(V)	125Vdc		

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AC Output Data							
Rated AC Output and UPS Power(W)		5,000		5,000		10,000	
Max. AC Output Power(VA)		5,500		5,500		11,000	
Rated AC Input/Output Current(A)		22.7/21.7		22.7/21.7		45.4/43.4	
Max AC Input/Output Current(A)		25/23.9		25/23.9		50/47.8	
Max Continuous AC Pass through (grid to load)		35Aac		35Aac		70 Aac	
Max ACIsC		75Aac		75Aac		150 Aac	
Peak Power (off-grid)(W)		2 times of rated power, 10s					
Regions		USA			EU		
Available Configurations		ENWALL 5KW-8KWH		ENWALL 5KW-16KWH		ENWALL 10KW-16KWH	
Single Phase	Rated Input/Output Voltage/Range(V)	120			220/230		
	Grid Connection Form	L+N+PE			L+N+PE		
	Rated Input/Output Grid Frequency/Range	60Hz/55Hz-65Hz			50Hz/45Hz-55Hz		
Three Phase	Rated Input/Output Voltage/Range(V)	120/208			230/400		
	Grid Connection Form	3L+N+PE			3L+N+PE		
	Rated Input/Output Grid Frequency/Range	60Hz/55Hz-65Hz			50Hz/45Hz-55Hz		
Split Phase	Rated Input/Output Voltage/Range(V)	120/240			230/400		
	Grid Connection Form	2L+N+PE			2L+N+PE		
	Rated Input/Output Grid Frequency/Range	60Hz/55Hz-65Hz			50Hz/45Hz-55Hz		
Power Factor Adjustment Range		0.8 leading to 0.8 lagging					
Total Current Harmonic Distortion THDi		<3% (of nominal power)					
DC Injection Current		<0.5%LN					

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Mechanical Specifications			
Dimensions (W x H x D) mm	657 x 1099 x 253	659 x 1267 x 250	659 x 1267 x 250
Weight (kg)	120	180 (estimated)	200
Module Casing Material	GI Powdered		
Installation Style	Wall Mounted		
Permissible Altitude (m)	2000		
Ingress Protection(IP) Rating	IP 65		
Efficiency			
Max. Efficiency	97.60%		
MPPT Efficiency	>99%		
Smart Features			
OLED Display	Monitor & Configure Module		
Communication	WIFI / CANBUS / Bluetooth		
Alarm	Buzzer alarm in the event of Over/under-Voltage, Over-Current, Over Temperature		
EN-Connect Software			
Module Monitoring	Total Voltage, Individual Cell Voltages, Current, Temperatures, Instantaneous Power, SOC and Energy Consumed		
Environmental Specifications			
Cell Operating Temperature	-30°C~+70°C		
Operating Humidity	Non-Condensing		
Warehousing	Can be stored at any SOC without affecting cycle life		

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Equipment Protection			
Battery Short Circuit Protection		Electronic Switching, Terminal Cut-off	
Battery Over/Under Voltage		Electronic Switching, Terminal Cut-off	
Battery Over Current		Electronic Switching, Terminal Cut-off	
Battery Over Temperature		Electronic Switching, Terminal Cut-off	
Integrated	DC Polarity Reverse Connection Protection, AC Output Over Current Protection, AC Output Over Voltage Protection, AC Output Short Circuit Protection, Thermal Protection, DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring, Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Over voltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level		
Surge Protection Level		TYPE II(DC),TYPE II(AC)	
General Data			
Noise		<30 dB(A)	
Inverter Topology		Non-Isolated	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Type Of Cooling		Intelligent Air cooling	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21,EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN62109-2		