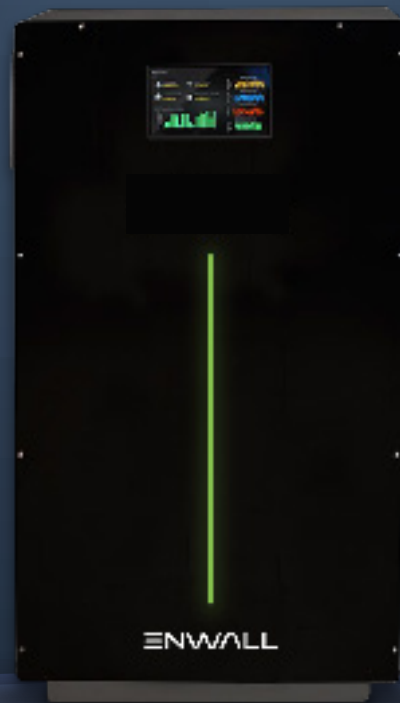


Manufactured by  
**ENCAP**  
BEYOND BATTERIES

**ENWALL**  
BEYOND BATTERIES

**TECHNICAL DATA SHEET**



# ENWALL DATA SHEET

FEATURES	ENWALL 5KW-8KWH	ENWALL 5KW-10KWH	ENWALL 5KW-16KWH	ENWALL 10KW-16KWH
<b>Battery Performance Specifications</b>				
DC Energy (kWh)	8	10	16	16
Max. Charging Current (A)	160	208	216	216
Max. Discharging Current (A)	160	208	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			
<b>PV String Input Data</b>				
Max. DC Input Power(W)	6,500	6,500	6,500	13,000
PV Input Current(A)	26Adc (13x2)	26Adc (13x2)	26Adc (13x2)	52Adc (13x4)
Max.PV Isc(A)	34Adc (17x2)	34Adc (17x2)	34Adc (17x2)	68Adc (17x4)
No. of MPPT Trackers	2	2	2	4
No. of Strings Per MPPT Tracker	2	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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FEATURES		ENWALL 5KW-8KWH	ENWALL 5KW-10KWH	ENWALL 5KW-16KWH	ENWALL 10KW-16KWH			
<b>AC Output Data</b>								
Rated AC Output and UPS Power(W)		5,000	5,000	5,000	10,000			
Max. AC Output Power(VA)		5,500	5,500	5,500	11,000			
Rated AC Input/Output Current(A)		22.7/21.7	22.7/21.7	22.7/21.7	45.4/43.4			
Max AC Input/Output Current(A)		25/23.9	25/23.9	25/23.9	50/47.8			
Max Continuous AC Pass through (grid to load)		35Aac	35Aac	35Aac	70 Aac			
Max ACIsC		75Aac	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	ENWALL 5KW-8KWH	ENWALL 5KW-10KWH	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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FEATURES	ENWALL 5KW-8KWH	ENWALL 5KW-10KWH	ENWALL 5KW-16KWH	ENWALL 10KW-16KWH
<b>Mechanical Specifications</b>				
Dimensions (W x H x D) mm	657 x 1099 x 253	657 x 1099 x 253	659 x 1267 x 250	659 x 1267 x 250
Weight (kg)	120	150	180 (estimated)	200
Module Casing Material	GI Powdered			
Installation Style	Wall Mounted			
Permissible Altitude (m)	2000			
Ingress Protection(IP) Rating	IP 65			
<b>Efficiency</b>				
Max. Efficiency	97.60%			
MPPT Efficiency	>99%			
<b>Smart Features</b>				
OLED Display	Monitor & Configure Module			
Communication	WIFI / CANBUS / Bluetooth			
Alarm	Buzzer alarm in the event of Over/under-Voltage, Over-Current, Over Temperature			
<b>EN-Connect Software</b>				
Module Monitoring	Total Voltage, Individual Cell Voltages, Current, Temperatures, Instantaneous Power, SOC and Energy Consumed			
<b>Environmental Specifications</b>				
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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FEATURES	ENWALL 5KW-8KWH	ENWALL 5KW-10KWH	ENWALL 5KW-16KWH	ENWALL 10KW-16KWH
<b>Equipment Protection</b>				
<b>Battery Short Circuit Protection</b>	Electronic Switching, Terminal Cut-off			
<b>Battery Over/Under Voltage</b>	Electronic Switching, Terminal Cut-off			
<b>Battery Over Current</b>	Electronic Switching, Terminal Cut-off			
<b>Battery Over Temperature</b>	Electronic Switching, Terminal Cut-off			
<b>Integrated</b>	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			
<b>Surge Protection Level</b>	TYPE II(DC),TYPE II(AC)			
<b>General Data</b>				
<b>Noise</b>	<30 dB(A)			
<b>Inverter Topology</b>	Non-Isolated			
<b>Over Voltage Category</b>	OVC II(DC), OVC III(AC)			
<b>Type Of Cooling</b>	Intelligent Air cooling			
<b>Grid Regulation</b>	IEC 61727, IEC 62116, CEI 0-21,EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
<b>Safety EMC/Standard</b>	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN62109-2			