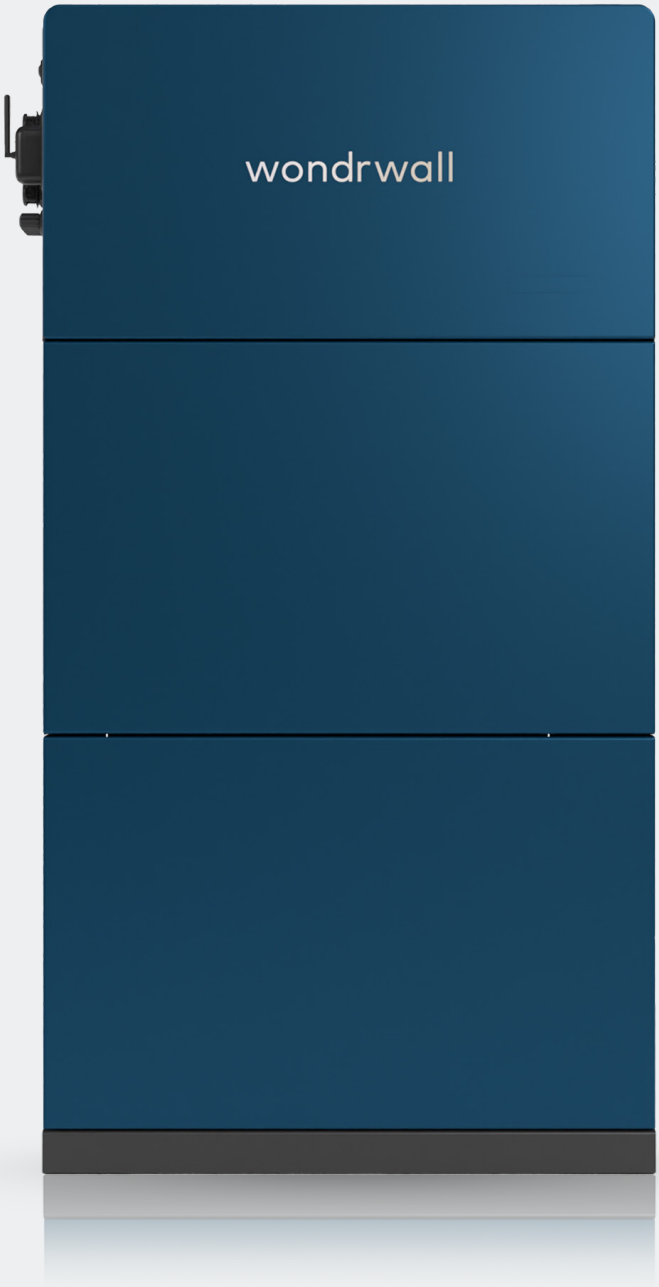
wondrwall



All-In-One Battery & Inverter System

WDR-HI-060-UK
WDR-BA-064-UK

REV 15092025

TECHNICAL SPECIFICATION



	1 x WDR-HI-060-UK 1 x WDR-BA-064-UK	1 x WDR-HI-060-UK 2 x WDR-BA-064-UK	1 x WDR-HI-060-UK 3 x WDR-BA-064-UK	1 x WDR-HI-060-UK 4 x WDR-BA-064-UK
Specifications				
Dimensions (W x D x H)	730mm x 205mm x 929mm	730mm x 205mm x 1399mm	730mm x 205mm x 1869mm	730mm x 205mm x 2339mm
Net Weight	95kg	154kg	214kg	273kg
System Parameters				
Max AC Output Power	6kW			
Max Charging/Discharging Power	3kW	6kW		
Operating Temp	-20°C ~ 55°C			
Optimal Operating Temp	15°C ~ 45°C			
Storage Temperature	7days @ -30°C ~ 60°C, 6 months @ -20°C ~ 45°C			
Operating Ambient Humidity	5% ~ 95%			
Altitude	≤2000m			
Cooling	Natural cooling			
Communication Module	WiFi			
Communication Protocol	RS485 & CAN			
Noise Emission	<30dB			
Standby Power Consumption	<30W			
Operating Power Consumption	530 mA	545 mA	560 mA	575 mA
Sleep Power Consumption	14μA	28μA	42μA	56μA
Ingress Protection rate/IP	IP66			
Mounting Options	Wall and floor			
Life Expectancy	15 Years			
Grid Type	1P+N+PE			

TECHNICAL SPECIFICATION

Battery Module Parameters				
Cell Type	LFP			
Weight	59.4kg ±3kg			
Dimensions (W x D x H)	730mm x 205mm x 470mm			
Total Capacity / Energy	62.4Ah / 6.39kWh			
Rated Capacity / Energy	58.87Ah / 6.04kWh			
Nominal Voltage	102.4V			
Max. Charging / Discharging Current	52.5A (15°C ≤ T ≤ 45°C)			
Max. Charging / Discharging Power	5376W (15°C ≤ T ≤ 45°C)			
RTE	95%, 0.2C 25°C			
Cycle Life	≥ 6000 cycles / 60%SOH (100%DOD, 0.5C/0.5C, 25°C)			
Self-discharge Rate	≤ 2%/Month @ 25°C			
Output Voltage Range	89.6V~115.2V (15°C<T ≤ 55° C) 86.4V~115.2V (5°C ≤ T ≤15° C) 83.2V~115.2V (0°C ≤T<5°C) 80V~115.2V (-10°C ≤T<0°C) 76.8V~115.2V (-20°C ≤T<-10°C) Note: The "T" referenced signifies the cell surface temperature			
PCS Parameters				
Weight	30kg ± 3kg			
Dimensions (W x D x H)	730± 2mm*205± 2mm*400± 2mm			
Topology	Non-isolated topology			
Enviromental Classes	Outdoor			
Battery Input Parameters				
Max. Battery Voltage	115.2V	230.4V	345.6V	460.8V
Rated Battery Voltage	102.4V	204.8V	307.2V	409.6V
Battery Voltage Range (15°C - 55°C)	89.6-115.2V	179.2-230.4V	268.8V~345.6V	358.4V~460.8V
Start-up Voltage	85V			
Max. Continuous Charging / Discharging Current	32A			
Grid Input Parameters				
Rated Input Voltage	1P+N+PE 230V			
Rated Input Frequency	50Hz			
Max. Continuous Input Current	28.9A			
Max. Continuous Input Active Power	6kW			
Max. Continuous Input Apparent Power	6000VA			

TECHNICAL SPECIFICATION

PV Input Parameters	
Max. Input Power	9kW
Max. Input Volltage	550V
MPPT Voltage Range	100~500V
MPPT Full-Load Voltage Range	300~460V
MPPT Start-Up Voltage	85V
Rated Input Voltage	300V
Max. Input Current Per MPPT	15A
Max. Short Current Per MPPT	19A
MPPT Quantity	2
Number of Input Strings Per MPPT	1
Max. Efficiency of MPPT	99.9%
On-Grid Output Parameters	
Rated Output Voltage	1P+N+PE, 230V
Rated Output Frequency	50Hz
Rated Output Power	6kW
Max Output Power	6kW
Max. active power (cosφ=1)	6kW
Rated Apparent Power	6000VA
Maximum On-Grid Output Apparent Power	6000VA
Rated Apparent Power for Grid Purchase	6000VA
Max. On-Grid Output Current	28.9A
Rated Output Current	26A
Max. Output Overcurrent Protection	56
Power Factor of On-Grid Power Generation (Adjustable)	-0.8~0.8
Power Factor of On-Grid Charging (PFC Mode)	0.99
Total Current Harmonic Distortion	3%
Surge Current	10KA

TECHNICAL SPECIFICATION

Off-Grid Output Parameters	
Off-grid rated apparent power	6000VA
Max. output apparent power	6000VA
Max. output current	28.9A
Rated output voltage	230V
Rated output voltage frequency	50Hz
Total voltage harmonic distortion (under linear load)	3%
Surge capability	<105% : long-term; 150% : 10s
Efficiency	
Max. Efficiency	97.5%
Max. Efficiency - AC Side	96.5%
Protection	
Overvoltage Level	AC: OVC III DC: OVC II
Protection level	Class 1
String Current Detection	Integrated
Insulation Impedance Detection	Integrated
Residual Current Detection	Integrated
Output Overcurrent Protection	Integrated
Input Reverse Connection Protection	Integrated
Battery Reverse Connection Protection	Integrated
Anti-Islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated
DC Switch	Integrated
DC Surge Protection	Integrated
AC Surge Protection	Integrated
DC Arc Fault Protection	Optional
Certificate	
Cell Certification	UL1973, IEC62619, UN38.3, Battery Directive
Grid Connection Certification	NTS, UNE217002:2020, UNE217001:2020, CEI0-21:2022, EN50549+NCRFG, TYPE A
Safety/EMC Certification	UN38.3+Test summary+ Sea-Land transportation identification report+ Danger report+ MSDS, IEC62619, IEC62109, IEC61000
Environmental Certification	ROHS, REACH