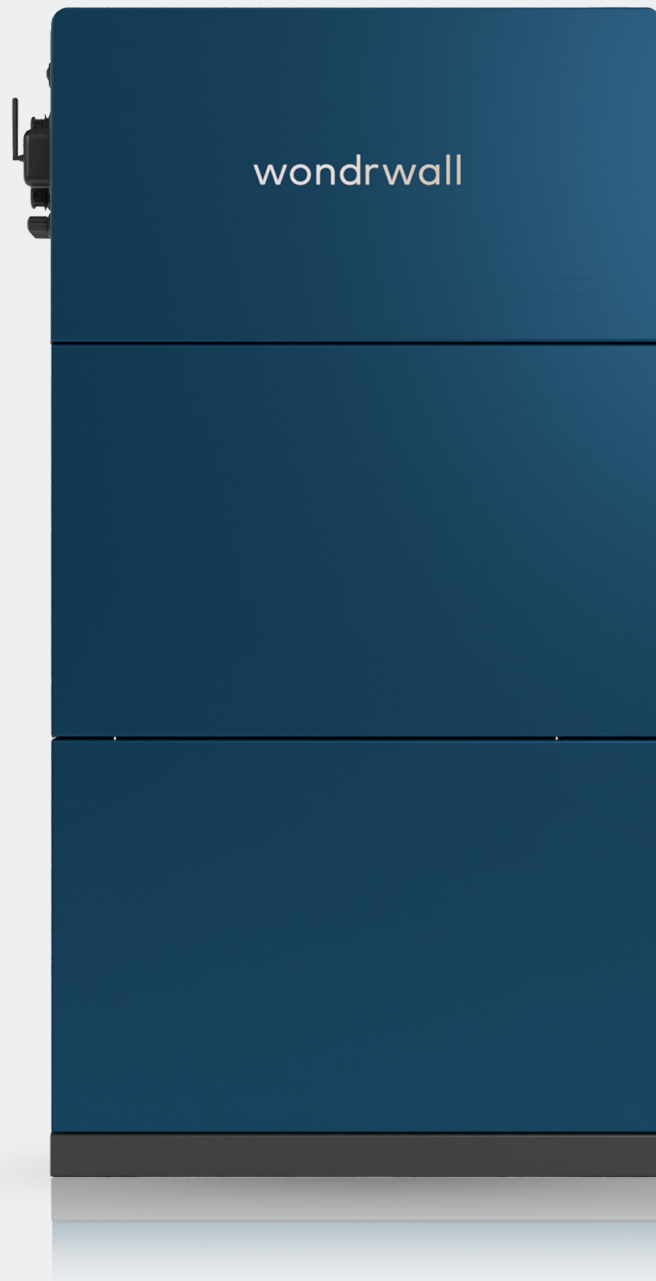


wondrwall



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
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Net Weight	95kg	154kg	214kg	273kg
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System Parameters

Max AC Output Power	6kW
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Max Charging/Discharging Power	3kW	6kW
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Operating Temp	-20°C ~ 55°C
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Optimal Operating Temp	15°C ~ 45°C
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Storage Temperature	7days @ -30°C ~ 60°C, 6 months @ -20°C ~ 45°C
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Operating Ambient Humidity	5% ~ 95%
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Altitude	≤2000m
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Cooling	Natural cooling
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Communication Module	WiFi
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Communication Protocol	RS485 & CAN
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Noise Emission	<30dB
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Standby Power Consumption	<30W
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Operating Power Consumption	530 mA	545 mA	560 mA	575 mA
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Sleep Power Consumption	14μA	28μA	42μA	56μA
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Ingress Protection rate/IP	IP66
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Mounting Options	Wall and floor
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Life Expectancy	15 Years
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Grid Type	IP+N+PE
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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 Voltage	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 ($\cos\phi=1$)	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 I
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