



WisdomMG

WISEN Single-Phase Residential Energy Storage System

WISEN HS4K~6K - BL5P~30P



UPS-grade backup with switchover time under 10 ms



Fully modular design for flexible configuration, easy installation, and maintenance



Automatic isolation of faulty battery modules to ensure stable operation



IP66 protection for indoor and outdoor deployment



App supports third-party device integration for strong expandability



High intelligence, compatible with Energy AI+



Comprehensive battery hardware & software protection for safe operation

WISEN HS4K~6K - BL5P~30P

Performance Parameters

Model:	WIN HS4K	WIN HS5K	WIN HS6K			
Battery Input Parameters						
Battery Type	LFP					
Rated Voltage	51.2 V					
Battery Voltage Range	42~60 V					
Max Charging/Discharging Power	5 kW					
Max Charging/Discharging Current	100 A					
Photovoltaic Input Parameters						
Max Input Power	6 kW	7.5 kW	9 kW			
Max Input Voltage	600 V					
Startup Voltage	120 V					
MPPT Voltage Range	100 V - 550 V					
MPPT Max Input Current	16 A * 2					
MPPT Max Short-Circuit Current	20 A * 2					
MPPT Quantity	2					
Input Strings per MPPT	1					
Grid-connected Input&Output						
Rated Input Power	4 kW	5 kW	6 kW			
Rated Input Current	17.4 A	21.7 A	26 A			
Max Input Apparent Power	8 kVA	10 kVA	11 kVA			
Rated Voltage	230 Vac					
Voltage Range	180 Vac - 276 Vac					
Rated Grid Frequency	50 Hz/60 Hz					
Rated Output Power	4 kW	4.99 kW	6 kW			
Off-Grid Output Parameters						
Rated Output Apparent Power	4 kVA	5 kVA	5 kVA			
Rated Output Power	4 kW	5 kW	5 kW			
Max Output Current	17.4 A	21.7 A	21.7 A			
Rated Output Voltage	230 V					
Rated Output Frequency	50/60 Hz					
Basic Parameters						
Operating Temperature Range	-25~+60°C (> 40°C derating)					
Relative Humidity	5~95%					
Relative Humidity	4000m(>2000m derating)					
Human-Machine Interface	LCD & APP					
Weight	27.5 kg					
Dimensions (Width × Height × Depth mm)	540*450*185					
Protection Rating	IP66					
Efficiency						
Maximum Efficiency	97.8%					
European Efficiency	97.3%					
Other						
Certifications	EN IEC61000-6-2/4,EN IEC61000-6-1/3,IEC60529,EN IEC62109-1/2, IEC61727,IEC62116,EN50549,Italy CEI 0-21,G98/G99,RoHS,WEEE					
Warranty	5 Year					
Battery Performance Parameters						
Battery Module Models	SUM BL5P	SUM BL10P	SUM BL15P	SUM BL20P-DB	SUM BL25P-DB	SUM BL30P-DB
Battery Type	LFP					
Rated Energy	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	25.6 kWh	30.72 kWh
Usable Capacity	4.6 kWh	9.2 kWh	13.8 kWh	18.4 kWh	23.0 kWh	27.6 kWh
Rated Voltage	51.2					
Max Charge/Discharge Power	2.5 kW	5 kW	5 kW	5 kW	5 kW	5 kW
Operating Temperature Range	-20°C ~ 50°C					
Protection Rating	IP66					
Net Weight	56 kg	105 kg	154 kg	203 kg	259 kg	308 kg
Dimensions (Width × Height × Depth mm)	650×360×180	650×360×180 *2	650×360×180 *3	650×360×180 *4	650×360×180 *5	650×360×180 *6
Certifications	EN IEC61000-6-2/4,EN IEC61000-6-1/3,EN IEC62040-1,EN IEC62477-1,IEC60730-1 Annex H, IEC62619,IEC60529,WEEE(2012/19/EU),MSDS,RoHS(2011/65/EU+2015/863),UN38.3					
Warranty	5 Year					