

Vestwoods

SINGLE PHASE HYBRID INVERTER

ESS INVERTER SOLUTIONS







Battery efficiency 94%





Model	VW4K6SLES	VW5KSLES	VW6KSLES	
Efficiency				
Max. efficiency (PV to AC)		97.3%		
Max. efficiency (BAT to AC)		94.0%		
Input (PV)				
Max. PV power	9000W			
Max. PV voltage	550V			
Max. input current (input A/input B) Max. short current (input A/input B)		15A/15A 20A/20A		
Start operating voltage		90V		
MPPT voltage range		70V-520V		
No. of MPPT trackers		2		
String per MPP tracker		1		
Input (BAT)				
Compatible battery type		Lithium-ion / Lead-acid		
Nominal battery voltage		48V		
Battery voltage range		40V-64V		
Max. charge/discharge current	120A/120A	120A/120A	120A/120A	
Max. charge/discharge power	5000W/5000W	5000W/5000W	6000W/6000W	
Lithium battery charge curve		Self-adaption to BMS		
Output (Grid)	5000W	6000W	6000W	
Nominal AC output power Max. AC output apparent power	5500VA	6000W 6000VA	6000W	
Max. AC output apparent power Max. AC output power (PF=1)	4600W	5500W	6000W	
Max. AC output power (FT =1)	25A	27.2A	27.2A	
Nominal AC voltage		230V		
AC voltage range	150V-300V (Adjustable)			
Rated grid frequency	50Hz/60Hz			
AC frequency range	45Hz-55Hz-65Hz (Adjustable)			
Grid connection	single phase			
Power factor	>0.99 @rated power (Adjustable 0.8 LD -0.8 LG)			
THDI		<3% (Rated Load)		
Output (Back up)				
Nominal output voltage		230V		
Nominal output frequency	4000144	50Hz/60Hz	5000144	
Nominal output power Nominal output current	4600W 20A	5000W 21.7A	6000W 26A	
Transfer time	20A	10ms (typ)/20ms (max)	20A	
THDV		< 3% @100% (RCD Load)		
Protection		1 0 70 G 100 70 (1100 2000)		
Protection category		Class I		
DC switch	Support			
Anti-islanding protection	Support			
AC overcurrent protection	Support			
AC short circuit protection	Support			
DC reverse connection	Support			
Surge Arrester	DC Type III, AC Type III			
Insulation detection	Support			
Leakage current protection	Support			
GEN AC overvoltage category	Support III			
General General		III		
Max. operation altitude		4000m		
Noise emission		<35dB		
Ingress protection degree	IP65			
Operating temperature range	-25°C~60°C			
Relative humidity	0~100%			
Cooling concept	Natural Cooling			
Mounting	Wall bracket			
Dimensions (W*H*D)	515mm*485mm*175mm			
Weight	25Kg			
PV connection	MC4/H4			
Battery connection AC connection way (grid & back up)	Dedicated AC connector			
		Dedicated AC connector		
HMI & COM		LED LADD/Dlasterate)		
Display Communication interface	LED+APP(Bluetooth) RS485/CAN (for BMS), RS485, USB, DRM/RS485(for Meter), Optional: WiFi/GPRS/LAN			
Certification	no489/CAN (for BIVIS), RS4	+00, UOD, UNIVI/NO485(TOR IVIETER), Optional: WIFI/GPRS/LAN	
Grid	VDE-AR-N4105, IEC 61727/62116, AS 4	1777.2, EN 50549-1, C10/11. G99. CFI 0-	21, NRS 097-2-1, RD 1699/661/413, NTS	
Safety		2109-1&2, IEC62040-1, IEC62		
Warranty	5 Years / 10 Years (Optional)			
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