

# SW 3/3.6/4.6/5/6K SH/LV-EU



## Excellent Performance

Support high power PV panel with 18A PV input current  
Max battery charge/discharge current of 135A  
Continuous 110% of nominal AC power



## High Flexibility

Support 40-65V Lithium or Lead-acid battery  
Max. 9 units parallel for on-grid and off-grid operation  
Support generator/smart load/AC coupling  
Plug and play for easy installation



## Safety & Reliability

Ip65: Indoor or outdoor installation  
Seamless transition to backup mode, for protection  
against power outages  
Multiple built-in protections



## Intelligent Maintenance

Intelligent Management, local & remote monitoring  
3 application modes, mixed with battery scheduling  
LCD touch color screen, easy to operate (Optional)

Model	SW 3KSH/LV-EU	SW 3.6KSH/LV-EU	SW 4.6KSH/LV-EU	SW 5KSH/LV-EU	SW 6KSH/LV-EU
<b>Efficiency</b>					
Max. Efficiency (PV to AC)			97.3%		
Eur. Efficiency (PV to AC)			96.8%		
Max. Efficiency (BAT to AC)			94.3%		
<b>Input (PV)</b>					
Max. PV Usable Power			10,000W		
Max. PV Voltage			550V		
Start-up Voltage			90V		
MPPT Operating Voltage Range			70V-540V		
Max. Input Current			18A/18A		
Max. Short Circuit Current			25A/25A		
Nos. of MPPT			2		
String per MPPT			1/1		
<b>Input/Output (BAT)</b>					
Battery Type			Lithium-ion/Lead-acid		
Nominal Battery Voltage			48V		
Battery Voltage Range			40V-65V		
Max. Charge/Discharge Current	75A/75A	75A/75A	110A/110A	110A/110A	135A/135A
Max. Charge/Discharge Power	4,000W/4,000W	4,000W/4,000W	5,500W/ 5,500W	5,500W/ 5,500W	6,600W/ 6,600W
<b>Input/Output (Grid)</b>					
Nominal AC Output Power	3,000W	3,600W	4,600W	5,000W	6,000W
Max. AC Apparent Power	3,300VA	3,960VA	4,600VA	5,500VA	6,600VA
Max. AC Output Power (PF=1)	3,300W	3,960W	4,600W	5,500W	6,600W
Max. AC Output Current	15A	18A	21A	25A	28.7A
Max. Input Power From Grid	7,500W	7,500W	9,000W	9,000W	9,000W
Max. Input Current From Grid	34A	34A	41A	41A	41A
Rated Grid Voltage			220V/230V/240V, L+N+PE		
Grid Voltage Range			150V-300V (Adjustable)		
Rated Grid Frequency			50Hz/60Hz		
AC Frequency Range			45Hz-55Hz/55Hz-65Hz (Adjustable)		
Power Factor			<0.99@rated power (Adjustable 0.8 LD - 0.8 LG)S		
THDI			<3%@Rated Power		
<b>Output (Back up)</b>					
Nominal Output Power	3,000W	3,600W	4,600W	5,000W	6,000W
Rated AC Output Current	13.6A/13.0A/12.5A	16.4A/15.7A/15.0A	20.9A/20.0A/19.2A	22.7A/21.7A/20.8A	27.3A/26.1A/25.0A
Peak Output Power (1min)	3,600VA	4,320VA	5,520VA	6,000VA	7,200AV
Peak Output Power (10s)	6,000VA	7,200VA	9,200VA	10,000VA	10,000VA
Nominal Output Voltage			220V/230V/240V, L+N+PES		
Nominal Output Frequency			50Hz/60Hz		
Transfer Time			10ms (Typical)		
THDV			<3%@100% R Load		
<b>Protection</b>					
Protection Category			Class I		
DC Switch			Yes		
Anti-islanding Protection			Yes		
AC Over Current Protection			Yes		
PV/AC Over Voltage Protection			DC Type II, AC Type III		
AC Short Circuit Protection			Yes		
PV Reverse Protection			Yes		
Surge Arrester			DC Type III, AC Type III (Type II Optional)		
Insulation Detection			Yes		
Leakage Current Protection			Yes		
<b>General</b>					
Max. Operation Altitude			4000m (>2000m derating)		
Protection Degree			IP65		
Operating Temperature Range			-25 C ~60 C (>45 C derating)		
Relative Humidity			0~100%		
Cooling Method	Natural Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Smart Fan Cooling
Mounting			Wall bracket		
Dimensions (W*H*D)			377mm*452mm*206mm		
Weight			20Kg		
<b>HMI &amp; COM</b>					
Display			LED, LCD (Optional)		
Communication Interface			RS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI ,USB (for Wi-Fi/LAN,optional)		
<b>Certification</b>					
Grid Code			IEC 61727/62116/61683/60068, NRS 097-2-1, G98, G99, VDE4105, EN 50549-1/-10, AS 4777.2		
Safety			IEC/EN 62109-1&2		
EMC			IEC/EN 61000/62920		
Warranty			5 Years/10 Years (Optional)		

Remarks: · The range of output voltage and frequency may vary depending on different grid codes.  
· Specifications are subject to change without advanced notice.