

SW 6/8/10/12/ 15/20KTH /LV-EU



- * LCD touch color screen, easy to operate
- * Support high power module with 20A PV input current
- * Up to 380A max. charging/discharging current
- * Unbalanced output: Increase the self-use rate of solar energy
- * Max. 9 units parallel for on-grid and off-grid operation
- * Intelligent Management app and portal
- * IP65: Indoor or outdoor installation

Model	SW 6KTH/LV-EU	SW 8KTH/LV-EU	SW 10KTH/LV-EU	SW 12KTH/LV-EU	SW 15KTH/LV-EU	SW 20KTH/LV-EU
Efficiency						
Max. Efficiency	97.60%					
Eur. Efficiency	97.00%					
Input (PV)						
Max. PV Input Power	9000W	12000W	15000W	18000W	225000W	225000W
Max. PV Input Voltage	1000V					
Start-up Voltage	120V					
MPPT Operating Voltage Range	160V-980V					
Max. Input Current per MPPT	20A/20A			20A/20A/20A		
Max. Short Circuit Current per MPPT	30A/30A			30A/30A/30A		
Nos. of MPPT	2			3		
String per MPPT	1/1			1/1/1		
Input/Output (BAT)						
Battery Type	Lithium-ion/Lead-acid					
No. of Battery Input	2*					
Battery Rated Voltage	48V					
Battery Voltage Range	40V-60V					
Max. Charge/Discharge Current	140A/140A	190A/190A	240A/240A	280A/280A	320A/320A	380A/380A
Max. Charge/Discharge Power	7000W/7000W	9500W/9500W	12000W/12000W	14000W/14000W	16000W/16000W	20000W/20000W
Output (Grid)						
Nominal AC Output Power	6000W	8000W	10000W	12000W	15000W	20000W
Max. AC Output Apparent Power	6600VA	8800VA	11000VA	13200VA	16500VA	22000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10A	3*13.3A	3*16.7A	3*20A	3*25A	3*33.3A
Max. Single Phase Power	3000W	4000W	5000W	6000W	7500W	7500W
Nominal Grid Voltage	220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Grid Frequency	50Hz/60Hz					
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)					
THDi	<3% @rated power					
Output (Back up)						
Nominal AC Output Power	6000W	8000W	10000W	12000W	15000W	20000W
Max. AC Output Apparent Power	6600VA	8800VA	11000VA	13200VA	16500VA	22000VA
Nominal AC Output Current	3*9.1A/3*8.7A/3*8.3A	3*12.1A/3*11.6A/3*11.1A	3*15.2A/3*14.5A/3*13.9A	3*18.2A/3*17.4A/3*16.7A	3*22.7A/3*21.7A/3*20.8A	3*30.3A/3*29A/3*27.8A
Max. AC Output Current	3*10A	3*13.3A	3*16.7A	3*20A	3*25A	3*33.3A
Peak Output Apparent Power (10s)	12000W	16000W	20000W	24000W	30000W	30000W
Nominal Grid Voltage	220V/220V/380V; 230V/400V, 240V/415V 3W+N+PE					
Nominal Grid Frequency	50Hz/60Hz					
Transfer Time	< 10ms					
THDV	<3% @100% R Load					
Protection						
Protection Category	Class I					
DC Switch	Yes					
Anti-islanding Protection	Yes					
AC Overcurrent Protection	Yes					
DC Reverse Protection	Yes					
DC/AC Overvoltage Protection	DC Type II, AC Type III					
Surge Arrester	DC Type II, AC Type II					
Insulation Resistance Detection	Yes					
Leakage Current Protection	Yes					
GFCI	Yes					
BAT Breaker	400A, Optional					
General						
Max. Operation Altitude	40400m (>2000m derating)					
Ingress Protection Degree	IP65					
Operating Temperature Range	-25 C ~60 C (>45 C derating)					
Relative Humidity	0~100%					
Cooling Method	Smart Cooling					
Mounting	Wall bracket					
Display	LED, LCD Optional					
Communication	RRS485/CAN (for BMS), RS485 (for Meter), DRMs, CAN (for parallel), 2*DO, 2*DI, USB (for Wi-Fi/LAN, optional)					
Dimensions (W*H*D)	453mm*742mm*254mm					
Weight	39.5Kg					
Certification						
Safety	IEC/EN 62109-1/-2					
EMC	IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 62920					
Grid	IEC 61727/62116, IEC 60068, IEC 61683, NRS 097-2-1, EN50549-1/10					
Warranty	5 Years/10 Years (optional)					

*: if only one set of terminals is used, the max battery charge/discharge will be limited to 190A