

SWH 16/18/20kW

Three-Phase Hybrid Solar Storage Inverter (Low Voltage)



MODEL

SWH016KL-T1-SR | SWH018KL-T1-SR
SWH020KL-T1-SR

-  Compatible with 48V storage batteries
-  3 efficient, independent MPPT ports
-  Up to 9 units can be connected in parallel
-  Capable of 150% unbalanced load output for single phase loads
-  Upgrades and transforms existing solar systems with the AC coupling function
-  Separate generator port
-  Support three-phase pure sine wave output
-  Support time-slot function for peak-valley
-  IP65 waterproof protection degree

MODEL	SWH016KL-T1-SR		SWH018KL-T1-SR		SWH020KL-T1-SR	
AC Output						
Rated Output Power	16000W		18000W		20000W	
Max. Output Power	17600W		19800W		22000W	
Max. Peak Power	32000VA		36000VA		40000VA	
Rated Output Voltage	220/380VAC three-Phase, 230/400VAC three-Phase					
Motor Load Capacity	8HP		9HP		10HP	
Rated Frequency	50/60Hz ±0.3Hz					
Switching Time	10ms (typical)					
Battery						
Battery Type	Lead-acid or Lithium-ion					
No. of Battery Input Ports	2					
Rated Battery Voltage	48V					
Battery Voltage Range	40 ~ 60Vdc					
Max. Grid/Generator Charging Current	300Adc		330Adc		350Adc	
Max. Hybrid Charging Current	300Adc		330Adc		350Adc	
Max. Discharge Current	300Adc		330Adc		350Adc	
PV Input						
No. of MPPT Trackers	3					
No. of Strings MPP Tracker	1+1+1					
Max. PV Input Power	24000W		27000W		30000W	
Max. PV Input Current	26A+26A+26A					
Max. Short-Circuit Current	45A+45A+45A					
Max. Open Circuit Voltage	1000V					
Start-up Voltage	150V					
MPPT Operating Voltage Range	160 ~ 850V					
Rated PV Input Voltage	600V					
Grid/Generator Input						
Input Voltage Range	Phase voltage 170~280V, Line voltage 295~485Vac					
Input Frequency Range	50/60Hz					
Bypass Overload Current	70Aac					
Efficiency						
MPPT Tracking Efficiency	>99%					
Max. Efficiency	97.6%					
European Efficiency	97%					
General Data						
Parallel Capacity	1 ~ 9 Units					
Cabinet Size	470*800*290mm					
Weight (kg)	60kg					
Protection Degree	IP65					
Operating Temperature	-40 to +60℃, >45℃ Derating					
External Module (Optional)	GPRS/WIFI/4G					
Surge Protection	DC type II/AC type II					
Certificate	/					
Humidity	0 ~ 100%					
Type of Cooling	Heat sink + intelligent fan cooling					
Warranty	5 years					
Communication	RS485/CAN/USB/Dry Contact					
Topology	Non-Isolated					
Overvoltage Protection Category	DC type II/AC type II					
Equipment Protection						
PV Lightning Protection, PV Reverse Polarity Protection, Anti - islanding Protection, Insulation Resistance Detection (ISO), Ground Fault Current Interrupter Detection (GFCI), AC Output Over - current Protection, Inverter Output Short - circuit Protection, Over - temperature Protection, RSD (Rapid Shutdown Device) Quick Shutdown, DC Arc Fault Circuit Interrupter Protection (AFCI), DC Input Switch Protection.						