

ALL-IN-ONE

THREE PHASE HYBRID INVERTER+BATTERY

SET8K20H / SET10K20H / SET12K25H



Easy Installation

Flexible configuration, plug and play set-up, built-in fuse protection.



High Voltage

Includes high-voltage batteries for maximum round-trip efficiency.



IP65 Rated

Engineered to last with maximum flexibility. Suitable for outdoor installation.



Remote Monitoring

Monitor your system remotely via smartphone app or web portal.

SYSTEM MODEL	SET8K20H	SET10K20H	SET12K25H
PV INPUT			
Max. PV Input Power	16kw	20kW	22.5kW
Max. PV Input Voltage	1100V		
MPPT Range	140~950V		
Max. Input Current	16A / 16A / 16A		
Max. Short Circuit Current	24A / 24A / 24A		
MPP Trackers	3		
Strings Per MPP Trackers	1 / 1 / 1		
AC PORT			
Rated Grid Output Power	8kVA	10kVA	12kVA
Max. Grid Input Power	16kVA	20kVA	22.5kVA
Rated Grid / Backup Voltage	220/380Vac, 230/400Vac, 3N/PE		
Rated Grid / Backup Frequency	50 / 60Hz		
Surge Backup Power	16kVA / 16kW	20kVA / 20kW	24kVA / 24kW
Rated Backup Power	8kVA	10kVA	12kVA
THDi	<3%		
THDv	<3% (Linear Load) / <5% (Non-linear Load)		
DCV	<100mV		
Crest Ratio	3:1		
Transfer Time	<10ms		
EFFICIENCY			
Max. Efficiency	98.4%		
Max. Round Trip Efficiency	96%		
GENERAL DATA			
Operating Temperature Range	-20~60 C		
Topology	Transformerless		
Dimensions (W*H*D)	590 × 416 × 205mm		
Weight	25kg		
Load Monitoring	Meter / CT / Backup box		
External Communication	RS-485 / WIFI / 4G / Ethernet		
Grid Regulation	VDE-AR-N 4105:2018, G98, G99, C10/11:2021, NTS 631, RD647:2020 UNE 217002:2020, CEI 0-21, VDE 0126-1-1, NRS 097-2-1, AS/NZS 4777.2:2020, EN 50549-1		
Safety Regulation	IEC/EN 62109-1&2, IEC/EN 62477-1:2012		
BATTERY MODEL			
	SS-BAT-4.8S	SS-BAT-9.6S	
Battery Type	LFP	LFP	
Battery Capacity	4.8kWh	9.6kWh	
Usable Capacity	4.6kWh	9.1kWh	
Depth of Discharge (DoD)	95%	95%	
Nominal Battery Voltage	96V	96V	
Operating Voltage Range	90~108V	90~108V	
Max. Charging Current	50A	50A	
Max. Discharging Current	50A	50A	
Operating Temperature Range	Charge: 0<T<50 C / Discharge: -10<T<50 C		Charge: 0<T<50 C / Discharge: -10<T<50 C
Cycle Lifetime	8000		8000
Series/Parallel	1~6 in series		1~6 in series
Dimensions (W*H*D)	590x430x205 mm		590x730x205 mm
Weight	39.2kg		86kg
Communication	CAN / RS-485 (Optional)		CAN / RS-485 (Optional)
Safety Regulation	IEC 62619:2017, IEC 62040:2017		IEC 62619:2017, IEC 62040:2017
Transportation	UN38.3		UN38.3
SYSTEM			
Operating Altitude	≤3000m (>3000m Derating)		
Relative Humidity	0~95% (No Condensing)		
Protection Degree	IP65		
Cooling	Natural Convection		
Noise	<30dB		
Warranty	5 years / 10 years		
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4		

* Note: Specifications are subject to change without advance notice.

