

# Shinson<sup>®</sup>

Technology Beyond Limits

 minicube

## ALL-IN-ONE

THREE PHASE  
HYBRID INVERTER+BATTERY

SET4K10H / SET5K10H / SET6K10H



### 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	SET4K10H	SET5K10H	SET6K10H
<b>PV INPUT</b>			
Max. PV Input Power	8kw	10kW	12kW
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		
<b>AC PORT</b>			
Rated Grid Output Power	4kVA	5kVA	6kVA
Max. Grid Input Power	8kVA	10kVA	12kVA
Rated Grid / Backup Voltage	220/380Vac, 230/400Vac, 3N/PE		
Rated Grid / Backup Frequency	50 / 60Hz		
Surge Backup Power	8kVA / 8kW	10kVA / 10kW	12kVA / 12kW
Rated Backup Power	4kVA	5kVA	6kVA
THDi	<3%		
THDv	<3% (Linear Load) / <5% (Non-linear Load)		
DCV	<100mV		
Crest Ratio	3:1		
Transfer Time	<10ms		
<b>EFFICIENCY</b>			
Max. Efficiency	98%	98%	98.2%
Max. Round Trip Efficiency	96%		
<b>GENERAL DATA</b>			
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		
<b>BATTERY MODEL</b>			
<b>SS-BAT-9.6P</b>			
Battery Type	LFP		
Battery Capacity	9.6kWh		
Usable Capacity	9.1kWh		
Depth of Discharge (DoD)	95%		
Nominal Battery Voltage	96V		
Operating Voltage Range	90~108V		
Max. Charging Current	50A		
Max. Discharging Current	50A		
Operating Temperature Range	Charge: 0<T<50 C / Discharge: -10<T<50 C		
Cycle Lifetime	8000		
Series/Parallel	1~6 in Parallel		
Dimensions (W*H*D)	590x730x205 mm		
Weight	86kg		
Communication	CAN / RS-485 (Optional)		
Safety Regulation	IEC 62619:2017, IEC 62040:2017		
Transportation	UN38.3		
<b>SYSTEM</b>			
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.

