

## ALL-IN-ONE

THREE PHASE  
HYBRID INVERTER+BATTERY  
SET8K15H / SET10K20H / SET12K20H



### 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.

| INVERTER MODEL                | SET8K15H     | SET10K20H  | SET12K20H    |
|-------------------------------|--------------|--|--------------|
| <b>PV INPUT</b>               |              |  |              |
| 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  |              |
| <b>AC PORT</b>                |              |  |              |
| Rated Grid Output Power       | 8kVA         | 10kVA  | 12kVA        |
| Max. Grid Input Power         | 16kVA        | 20kVA  | 22.5kVA      |
| Rated Grid / Backup Voltage   |              | 220/380Vac, 230/400Vac, 3/N/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  |              |
| <b>EFFICIENCY</b>             |              |  |              |
| Max. Efficiency               |              | 98.4%  |              |
| 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<br>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-4.8S</b>   |              |
| Battery Type                  |              | LFP  |              |
| Unit of Battery               | 3            | 4  | 4            |
| Battery Capacity              |              | 4.8kWh   |              |
| Usable Capacity               |              | 4.6kWh   |              |
| 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 series  |              |
| Dimensions (W*H*D)            |              | 590x430x205 mm   |              |
| Weight                        |              | 39.2kg   |              |
| 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.

