



# SUNKETESS High Voltage Three Phase Hybrid Inverter

4.0KW/5.0KW/6.0KW/8.0KW/10.0KW/12.0KW



Big lcd display



Three phase unbalanced output



Power export limit



Wifi/GPRS/Lan communication optional



## Simpler

Quick and easy single person installation  
Fault codes warning view on LCD display  
smart meter optional



## Safer

Comply with international quality standards  
tested by TUV, BV, Dekra etc.



## Great reliability

IP65 ingress protection  
10+ years R&D accumulation and support

## ANYTIME, ANYWHERE REMOTE MONITORING PLATFORM

Monitor system performance in  
real-time via smartphone app or  
web portal using our advanced  
monitoring platform.



SKT Series Three Phase



For more about sunketess hybrid inverter  
please visit [www.sunketpower.com](http://www.sunketpower.com)

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# THREE PHASE HYBRID INVERTER



## Technology Data

SKT Series (4KW / 5KW / 6KW / 8KW / 10KW / 12KW)

pv inverter expert

| Model No                                                              | SKT4KTL3H | SKT5KTL3H | SKT6KTL3H | SKT8KTL3H                             | SKT10KTL3H | SKT12KTL3H |
|-----------------------------------------------------------------------|-----------|-----------|-----------|---------------------------------------|------------|------------|
| <b>Input ( DC )</b>                                                   |           |           |           |                                       |            |            |
| Max DC power                                                          | 6000W     | 7500W     | 9000W     | 12000W                                | 15000W     | 15000W     |
| Max DC voltage                                                        |           |           |           | 1000Vd.c.                             |            |            |
| MPPT voltage range                                                    |           |           |           | 200...850Vd.c.                        |            |            |
| Max input current/per string                                          |           |           |           | 13Ax2                                 |            |            |
| Number of MPP trackers                                                |           |           |           | 2                                     |            |            |
| Number of input string                                                |           |           |           | 2                                     |            |            |
| <b>Battery Input</b>                                                  |           |           |           |                                       |            |            |
| Battery Type                                                          |           |           |           | Li-Lon                                |            |            |
| Battery voltage range                                                 |           |           |           | 130~700V                              |            |            |
| Maximum charge/discharge current                                      |           |           |           | 25/25A                                |            |            |
| Charge strategy for Li-tou Battery                                    |           |           |           | Self-adaptation to BMS                |            |            |
| <b>Output (AC)</b>                                                    |           |           |           |                                       |            |            |
| AC nominal power                                                      | 4000VA    | 5000VA    | 6000VA    | 8000VA                                | 10000VA    | 12000VA    |
| Max AC apparent power                                                 | 5000VA    | 5500VA    | 7000VA    | 8800VA                                | 11000VA    | 13200VA    |
| Max output current                                                    | 8A        | 10A       | 12A       | 15A                                   | 17A        | 20A        |
| Nominal AC output                                                     |           |           |           | 50/60Hz; 400/350                      |            |            |
| AC output range                                                       |           |           |           | 45/55Hz;280~490Vac(Adj)               |            |            |
| Power factor                                                          |           |           |           | 0.8leading...0.8laging                |            |            |
| Harmonics factor                                                      |           |           |           | <3%                                   |            |            |
| Grid type                                                             |           |           |           | 3W/N/PE                               |            |            |
| Three-phase unbalance output                                          | 0~100%    | 0~100%    | 0~100%    | 0~100%                                | 0~100%     | 0~80%      |
| <b>AC Output (Back-up)</b>                                            |           |           |           |                                       |            |            |
| Max AC apparent power                                                 | 4000VA    | 5000VA    | 6000VA    | 8000VA                                | 10000VA    | 10000VA    |
| Norminal Output Voltage                                               |           |           |           | 400/380V                              |            |            |
| Norminal Output Frequency                                             |           |           |           | 50/60HZ                               |            |            |
| Output THDV (@Liuear Load)                                            |           |           |           | <3%                                   |            |            |
| <b>Efficiency</b>                                                     |           |           |           |                                       |            |            |
| Maximum conversion efficiency                                         | 98.0%     | 98.0%     | 98.2%     | 98.2%                                 | 98.2%      | 98.2%      |
| European efficiency                                                   | 97.3%     | 97.3%     | 97.5%     | 97.5%                                 | 97.5%      | 97.5%      |
| Max battery to AC Efficiency                                          | 97.2%     | 97.2%     | 97.4%     | 97.4%                                 | 97.4%      | 97.4%      |
| MPPT efficiency                                                       | 99.9%     | 99.9%     | 99.9%     | 99.9%                                 | 99.9%      | 99.9%      |
| <b>Safety and Protection</b>                                          |           |           |           |                                       |            |            |
| DC reverse-polarity protection                                        |           |           |           | yes                                   |            |            |
| DC breaker                                                            |           |           |           | yes                                   |            |            |
| DC/AC SPD                                                             |           |           |           | yes                                   |            |            |
| Leakage current protection                                            |           |           |           | yes                                   |            |            |
| Insulation Impedance Detection                                        |           |           |           | yes                                   |            |            |
| Residual Current protection                                           |           |           |           | yes                                   |            |            |
| Output short circuit protection                                       |           |           |           | yes                                   |            |            |
| Battery reerse connection protection                                  |           |           |           | yes                                   |            |            |
| <b>General Parameters</b>                                             |           |           |           |                                       |            |            |
| Dimension (W/H/D)                                                     |           |           |           | 548*444*184mm                         |            |            |
| Weight                                                                |           |           |           | 30 kg                                 |            |            |
| Operating temperature range °C                                        |           |           |           | -25°C...+60 °C                        |            |            |
| Degree of protection                                                  |           |           |           | IP65                                  |            |            |
| Cooling concept                                                       |           |           |           | Natural convection                    |            |            |
| Topology                                                              |           |           |           | Transformerless                       |            |            |
| Display                                                               |           |           |           | LCD                                   |            |            |
| Humidity                                                              |           |           |           | 0-95%,no condensation                 |            |            |
| Communication                                                         |           |           |           | Standard WiFi;GPRS/LAN(optional)      |            |            |
| Warranty                                                              |           |           |           | Standard 5 years; 7/10 years optional |            |            |
| BMS communication                                                     |           |           |           | CAN/RS485                             |            |            |
| Meter communication                                                   |           |           |           | R485                                  |            |            |
| <b>Certificates and Approvals</b>                                     |           |           |           |                                       |            |            |
| CQC, VDE-AR-N4105,IEC61727,IEC62116,VDE0124-AR-N0124,EN50549,IEC62109 |           |           |           |                                       |            |            |

