

# HPS30000TL

## HPS40000TL/HPS50000TL

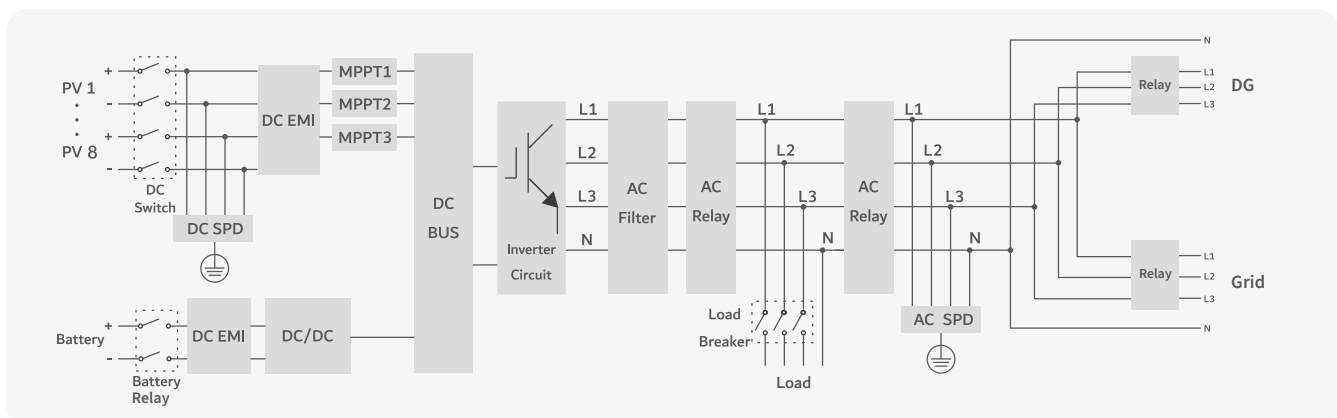
30-50kW three phase all-in-one hybrid inverter for small commercial use.

### Features

-  All-in-one hybrid inverter
-  ATS function inbuilt
-  IP65 waterproof design
-  Seamless on/off grid transfer within 10 ms
-  Max. 10 units in parallel for on&off grid operation
-  Support remote control of DG
-  Programmable working mode
-  Multiple MPPT inputs



### Block Diagram



|                    | HPS30000TL              | HPS40000TL              | HPS50000TL              |
|--------------------|-------------------------|-------------------------|-------------------------|
| <b>AC(on-grid)</b> |                         |                         |                         |
| Apparent power     | 33kVA                   | 44kVA                   | 55kVA                   |
| Rated power        | 30kW                    | 40kW                    | 50kW                    |
| Rated voltage      | 400V                    | 400V                    | 400V                    |
| Rated current      | 43A                     | 57A                     | 72A                     |
| Voltage range      | 360V-440V               | 360V-440V               | 360V-440V               |
| Rated frequency    | 50/60Hz                 | 50/60Hz                 | 50/60Hz                 |
| Frequency range    | 47~53/57~63Hz           | 47~53/57~63Hz           | 47~53/57~63Hz           |
| THDI               | <3%                     | <3%                     | <3%                     |
| PF                 | 0.8 lagging~0.8 leading | 0.8 lagging~0.8 leading | 0.8 lagging~0.8 leading |
| AC connection      | 3L/N/PE                 | 3L/N/PE                 | 3L/N/PE                 |
| MAX. AC Input Powe | 45kW                    | 60kW                    | 70kW                    |

|                     |                         |                         |                         |
|---------------------|-------------------------|-------------------------|-------------------------|
| <b>AC(off-grid)</b> |                         |                         |                         |
| Apparent power      | 33kVA                   | 44kVA                   | 55kVA                   |
| Rated power         | 30kW                    | 40kW                    | 50kW                    |
| Rated voltage       | 400V                    | 400V                    | 400V                    |
| Rated current       | 43A                     | 57A                     | 72A                     |
| THDU                | ≤2% linear              | ≤2% linear              | ≤2% linear              |
| Rated frequency     | 50/60Hz                 | 50/60Hz                 | 50/60Hz                 |
| Overload capability | 110%-10 mins 120%-1 min | 110%-10 mins 120%-1 min | 110%-10 mins 120%-1 min |

|                                 |           |           |           |
|---------------------------------|-----------|-----------|-----------|
| <b>DC (Battery and PV)</b>      |           |           |           |
| Max. PV Open-circuit voltage    | 1000V     | 1000V     | 1000V     |
| Max. PV power                   | 45kWp     | 60kWp     | 75kWp     |
| PV MPPT voltage range           | 125V-850V | 125V-850V | 125V-850V |
| Number of MPPT                  | 3         | 3         | 3         |
| PV input/MPPT                   | 2/3/3     | 2/3/3     | 2/3/3     |
| PV input current                | 40/60/60A | 40/60/60A | 40/60/60A |
| Max. PV Isc                     | 60/90/90A | 60/90/90A | 60/90/90A |
| Max. PV Isc/Channel             | 20A       | 20A       | 20A       |
| Battery voltage range           | 260-700V  | 260-700V  | 260-700V  |
| Full load battery voltage range | 350-720V  | 430-700V  | 500-700V  |
| Max. charge/discharge power     | 30kW      | 40kW      | 50kW      |
| Max. charge/discharge current   | 100A      | 100A      | 100A      |

|                              |                                                 |
|------------------------------|-------------------------------------------------|
| <b>General Information</b>   |                                                 |
| Protection devices           | PV DC switch, PV fuse, battery breaker and fuse |
| Protection degree            | IP65                                            |
| Noise emission               | <65dB(A)@1m                                     |
| Operating temperature        | -25 °C~+55 °C                                   |
| Cooling method               | Forced-air                                      |
| Relative humidity            | 0-95% non-condensing                            |
| Max. altitude                | 5000m (derate over 3000m)                       |
| Dimension (W/H/D)            | 600/990/280mm                                   |
| Weight                       | 90kg                                            |
| Topology                     | Transformerless                                 |
| Lightning protection         | Type II                                         |
| Transfer between on/off grid | Automatic≤10ms                                  |
| Standby consumption          | <20W                                            |

|                      |              |              |              |
|----------------------|--------------|--------------|--------------|
| <b>Communication</b> |              |              |              |
| Display              | Touch screen | Touch screen | Touch screen |
| Communication        | RS485/CAN    | RS485/CAN    | RS485/CAN    |

|                                                                                                                                                      |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>Certificate</b>                                                                                                                                   |  |  |  |
| CE , EN IEC 61000-6-4:2019 , EN 61000-3-12:2011 , EN IEC 61000-3-11:2019 , EN IEC 61000-6-2:2019 , EN62109-1:2010 , EN62109-2:2011 , NRS097-2-1:2017 |  |  |  |