

# PV hybrid three phase inverter

## SEP300T - 10/15K

### Features



- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, Battery or Grid



- User-adjustable battery charging current suits different types of batteries



- Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup



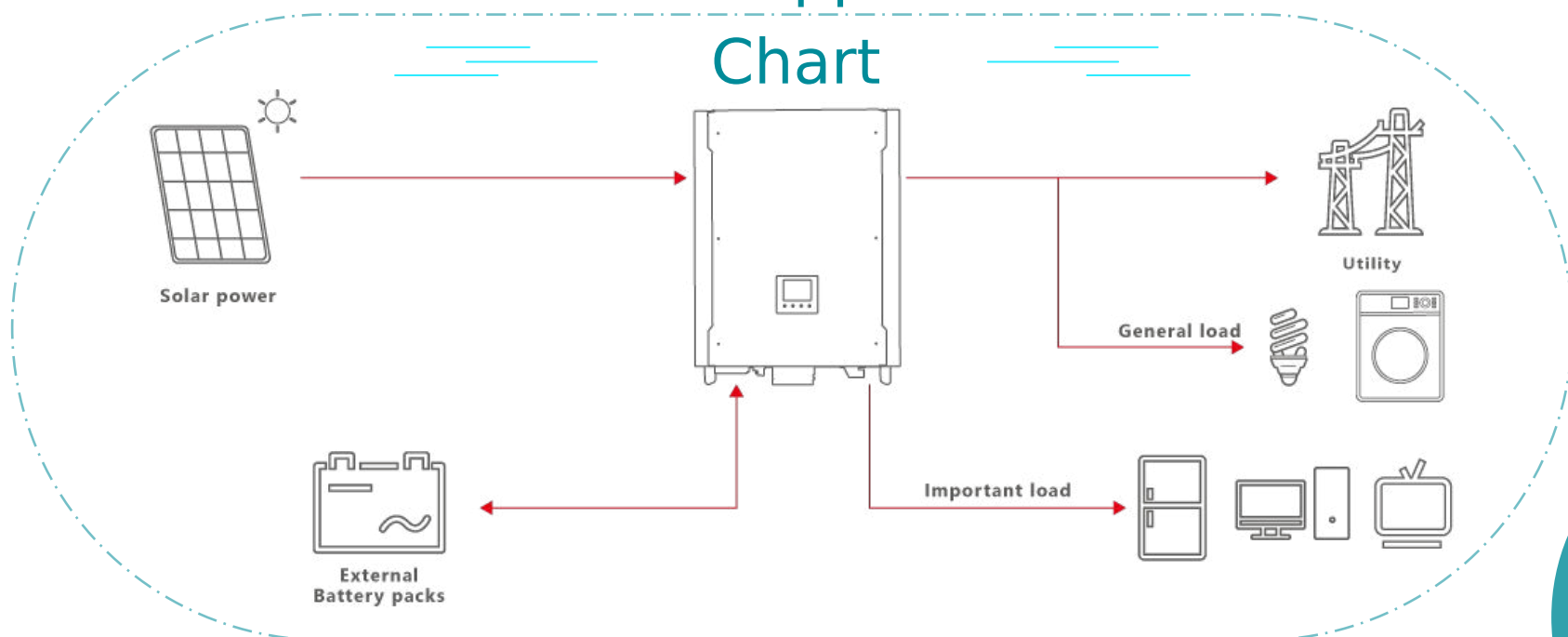
- Multiple communication for USB, RS-232, Modbus and SNMP. Monitoring software for real time status display and control. Custom-made firmware by ODM contract



- Parallel operation up to 6 units for 5KW / 10KW and 15KW
- Built-in Timer for various mode of on/off operation

### Product Application

#### Chart



## Product Model and Technical parameters

| MODEL  | SEP300T-10K48                             | SE300T-15K48                  |
|--|---|-------------------------------|
| Maximum PV Input Power                         | 14850W                                    | 22500W                        |
| Rated Output Power                             | 10000W                                    | 15000W                        |
| Maximum Charging Power                         | 9600W                                     | 15000W                        |
| <b>GRID-TIE OPERATION</b>                      |   |                               |
| <b>PV INPUT (DC)</b>                           |   |                               |
| Nominal DC Voltage / Maximum DC Voltage        | 720VDC/900VDC                             |                               |
| Start-up Voltage / Initial Feeding Voltage     | 320VDC/350VDC                             |                               |
| MPP Voltage Range                              | 400VDC~800VDC                             |                               |
| Number of MPP Trackers Maximum Input Current   | 2/2 x 18.6A                               | 2/A : 37.65A ; B : 18.6A      |
| <b>GRID OUTPUT (AC)</b>                        |   |                               |
| Nominal Output Voltage                         | 230VAC ( P-N ) /400VAC(P-P)               |                               |
| Output Voltage Range                           | 184-264.5VAC per phase                    |                               |
| Nominal Output Current                         | 14.5A per phase                           | 21.7A per phase               |
| Power Factor                                   | > 0.99                                    |                               |
| <b>EFFICIENCY</b>                              |   |                               |
| Maximum Conversion Efficiency (DC/AC)          | 96%                                       |                               |
| European Efficiency@ Vnominal                  | 95%                                       |                               |
| <b>OFF-GRID OPERATION</b>                      |   |                               |
| <b>AC INPUT</b>                                |   |                               |
| AC Start-up Voltage / Auto Restart Voltage     | 120-140 VAC per phase / 180 VAC per phase |                               |
| Acceptable Input Voltage Range                 | 170 -280 VAC                              |                               |
| Maximum AC Input Current                       | 40 A                                      |                               |
| <b>PV INPUT (DC)</b>                           |   |                               |
| Maximum DC Voltage                             | 900 VDC                                   |                               |
| MPP Voltage Range                              | 400 VDC~800 VDC                           | 350 VDC ~ 850 VDC             |
| Number of MPP Trackers / Maximum Input Current | 2 / 2 x 18.6A                             | 2 / A : 2 x 37.65A ; B: 18.6A |
| <b>BATTERY MODE OUTPUT (AC)</b>                |   |                               |
| Nominal Output Voltage                         | 230VAC ( P-N ) /400VAC(P-P)               |                               |
| Output Waveform                                | Pure sine wave                            |                               |
| Efficiency (DC to AC)                          | 91%                                       |                               |
| <b>HYBRID OPERATION</b>                        |   |                               |
| <b>PV INPUT (DC)</b>                           |   |                               |
| Nominal DC Voltage / Maximum DC Voltage        | 720 VDC / 900 VDC                         |                               |
| Start-up Voltage / Initial Feeding Voltage     | 320 VDC / 350VDC                          |                               |
| MPP Voltage Range                              | 400 VDC~800VDC                            | 350 VDC~850 VDC               |

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| <b>GRID OUTPUT (AC)</b>                           |  |                                  |
| Nominal Output Voltage                            | 230VAC ( P-N ) / 400VAC(P-P)                     |                                  |
| Output Voltage Range                              | 184-264.5VAC per phase                           |                                  |
| Nominal Output Current                            | 14.5 A per phase                                 | 21.7A per phase                  |
| <b>AC INPUT</b>                                   |  |                                  |
| AC Start-up Voltage / Auto Restart<br>Voltage     | 120-140 VAC per phase / 180 VAC per phase        |                                  |
| Acceptable Input Voltage Range                    | 170~280 VAC per phase                            |                                  |
| Maximum AC Input Current                          | 40A  |                                  |
| <b>BATTERY MODE OUTPUT (AC)</b>                   |  |                                  |
| Nominal Output Voltage                            | 230VAC ( P-N ) /400VAC(P-P)                      |                                  |
| Efficiency (DC to AC)                             | 91%  |                                  |
| <b>BATTERY &amp; CHARGER</b>                      |  |                                  |
| Nominal DC Voltage                                | 48 VDC   |                                  |
| Maximum Charging Current                          | Default 60A ; 5A~300A                            |                                  |
| <b>Conventional parameters</b>                    |  |                                  |
| <b>PHYSICAL</b>                                   |  |                                  |
| Dimension, D X W X H (mm)                         | 167.2 x 500 x 622                                | 219 x 650 x 820                  |
| Net Weight (kgs)                                  | 40   | 62                               |
| <b>INTERACE</b>                                   |  |                                  |
| Communication Port                                | USB/RS-232                                       | RS-232/USB and Dry<br>contact    |
| Intelligent Slot                                  | Optional SNMP, Modbus and AS-400 cards availadle |                                  |
| <b>ENVIRONMENT</b>                                |  |                                  |
| Working humidity                                  | 0 ~ 90% RH (Non-condensing)                      |                                  |
| Operating Temperature                             | -10~55°C   |                                  |
| Altitude  | 0 ~ 1000 m                                       |                                  |