LEADING FEATURES

- Transformerless Inverter
- Maximum Efficiency Over 98.9%, EU Efficiency Over 98.5%
- Wide MPPT Voltage Range with 4 MPPT Design and Precise MPPT Algorithm
- IP 65 Certified
- Low Harmonic Distortion, THDi<3%
- Integrated DC Switch
- Intelligent Redundant Fan-Cooling
- 5 Years Standard Warranty With Extended Warranty Option
- Onboard SPDs For DC & AC Sides
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th><strong>MODEL</strong></th>
<th><strong>PSIT - 50K</strong></th>
<th><strong>PSIT - 60K</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Rating</strong></td>
<td>50 kW</td>
<td>60 kW</td>
</tr>
</tbody>
</table>

#### INPUT SIDE (DC)
- **Max. DC Input Power (KW)**: 60 72
- **Max. DC Input Voltage (V)**: 1100
- **Start-up Voltage (V)**: 200
- **MPPT Voltage Range (V)**: 200-1000
- **Max. Input Current (A)**: 28.5A + 28.5A + 28.5A
- **MPPT Number / No. of Strings per MPPT**: 4/3

#### OUTPUT SIDE (AC)
- **Rated Output Power (KW)**: 50 60
- **Max. Apparent Output Power (kVA)**: 55 66
- **Max. Output Power (KW)**: 55 66
- **Rated Grid Voltage (Vac)**: 400 400
- **Grid Voltage Range (Vac)**: 304-450 304-460
- **Rated Grid Frequency (Hz)**: 50
- **Operation Phase**: Three
- **Rated Grid Output Current (A)**: 72.2 96.6
- **Max. Output Current (A)**: 83.3 100
- **Power Factor (at Rated Output power)**: 0.8...1.0 0.8...
- **THDi (at Rated Output Power)**: <3% <3%
- **DC Injection Current**: <35% <35%
- **Grid Frequency Range (Hz)**: 47-52

#### EFFICIENCY
- **Max. Efficiency**: 98.80% 99.00%
- **EU Efficiency**: 98.40% 98.50%
- **MPPT Efficiency**: 99.30%

#### PROTECTION
- **Built-in Protections**: DC Reverse-Polarity Protection, Short Circuit Protection, Output over Current Protection, Output Over Voltage Protection, Insulation Resistance Monitoring, Residual Current Detection, Surge Protection & Monitoring, Islanding Protection, Temperature Protection, surge protection through SPDs are on both AC and DC sides, Grid Monitoring
- **Integrated DC switch**: Yes

#### GENERAL DATA
- **Dimensions (mm)**: 630W*730H*357D (mm)
- **Weight (kg)**: 63 69
- **Topology**: Transformerless
- **Self Consumption (Night)**: <1W(Night)
- **Operating Ambient Temperature Range**: -25° to 60° C
- **Ingress Protection**: IP 65
- **Noise Emission (Typical)**: <60 dBA
- **Cooling Concept**: Intelligent Redundant Fan-Cooling
- **Max. Operation Altitude**: 4000m
- **Design Life**: >20 Years
- **Grid Connection Standard**: EN50438, IEC5817, VDE0126-1-1, IEC61727
- **Relative Humidity**: 0~100%
- **Safety / EMC Standard**: IEC62109-1/-2, EN61000-6-1, EN61000-6-3

#### FEATURES
- **DC Connection**: MC-4Machable
- **AC Connection**: 01 Terminal Connectors
- **Display**: LCD, 2 x 20
- **Communication Interface**: 4 Pines RS485 Connector, 2 RJ45 Connector, 2 Group of Terminal Block

#### CERTIFICATE
- **Grid Connection**: IEC 61727
- **Arc – Islanding Protection**: IEC 62116
- **Environmental Testing**: IEC 60068-2-12-1, 1-14-30
- **Safety**: IEC 62109-1, IEC 62109-2
- **EMC**: IEC 61000, EN61000-6-1:2007, EN61000-6-3:2007
- **Efficiency Measurement**: IEC 61853

**Note:** Specifications are subject to change.