

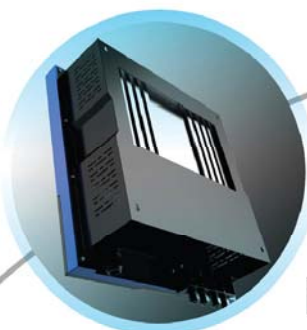


Mac solar



Single-Phase PV Grid-connected Inverter

Macsol-TL3K/Macsol-TL4K/Macsol-TL5K



Features:

- Conversion Efficiency up to 97.6%
- Wide MPPT Voltage Range
- Transformerless
- Integrated DC switch
- Multi-certified
- IP65 protection
- Comprehensive safety protections
- Multi-language display
- Multiple communication options

| Type | Macsol-TL3K | | Macsol-TL4K | | Macsol-TL5K |
|--|---|-----------|---|-----------|-------------|
| Input (DC) | | | | | |
| Max. DC Power [W] | 3400 | | 4550 | | 5650 |
| Rated. DC Power [W] | 3100 | | 4100 | | 5150 |
| Absolute.DC Voltage [V] | 600 | | | | |
| MPPT Input Voltage Range [V] | 100-580 (Rated 360) | | | | |
| Standby voltage[V] | 130 | | 130 | | 130 |
| Stop voltage[V] | 100 | | 100 | | 100 |
| Activation voltage [V] | 150 | | 150 | | 150 |
| Number of DC Connection Sets | 2 | | 2 | | 2 |
| Number of MPP Trackers | Single/Double(Optional) | | Single/Double(Optional) | | Double |
| Max. Input , Single/Double Current [A] | Single | 21 | Single | 21 | 28 |
| | Double | 12/12 | Double | 12/12 | |
| Max. Input Power , Single/Double MPPT [W] | Single | 3400 | Single | 4550 | - |
| | Double | 2170/2170 | Double | 2870/2870 | |
| DC Connection | Amphenol Helios 4 | | | | |
| DC Switch | Optional | | | | |
| Output (AC) | | | | | |
| Rated AC Power [W] | 3000 | | 4000 | | 5000 |
| Max. AC Power [W] | 3300 | | 4400 | | 5500 |
| Rated AC Current [A] | 13.0 | | 17.4 | | 21.8 |
| Max. AC Current [A] | 14.4 | | 19.1 | | 24.0 |
| Grid Voltage/Frequency Range | According to VDE 0126-1-1, RD1663, G83,AS4777,C10/11, ENEL guide 2010 | | | | |
| Power Factor(cos Φ) | > 0.99 | | | | |
| AC Current Distortion (THD) | < 3% | | | | |
| AC Connection | WIELAND 96-032-5054-3 | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 97.5% | | 97.6% | | 97.6% |
| Euro Efficiency (at 360Vdc) | 96.5% | | 97.0% | | 97.0% |
| MPPT Accuracy (static) | 99.5% | | 99.5% | | 99.5% |
| Protection | | | | | |
| Internal Overvoltage Protection | Yes | | | | |
| DC Insulation Monitoring | Yes | | | | |
| DC/AC Side Varistors | Yes | | | | |
| Direct Current Monitoring | Yes | | | | |
| Ground Fault Current Monitoring | Yes | | | | |
| Grid Monitoring | Yes | | | | |
| Short Current Protection | Yes | | | | |
| Thermal Derating Protection | Yes | | | | |
| Interface | | | | | |
| LCD Display | 128 x 64 Pixels,Backlight | | | | |
| Display Language | Multi Languages | | | | |
| Datalogger & Communication | RS485A, USB(Optional), RS485B(Optional), Ethernet(Optional) | | | | |
| Other Data | | | | | |
| Isolation | Transformerless | | | | |
| Operating Temperature Range | -20 C to +60 C | | -20 C to +60 C (40 C to 60 C with derating) | | |
| Cooling Method | Natural Convection | | | | |
| Ambient Humidity | 0-98%non condensing | | | | |
| Noise Emission [dBA] | <40 | | | | |
| Operation Altitude[m] | <2000 | | | | |
| Consumption during Night[W] | <0.1 | | | | |
| IP Protection | IP65 | | | | |
| Dimensions (WxHxD) [mm] | 496 x 515 x 200 | | | | |
| Weight[kg] | Single | 20.3 | Single | 20.3 | 22.6 |
| | Double | 22.6 | Double | 22.6 | |
| Standard Warranty [Year] | 5 / 10 (Optional) | | | | |