



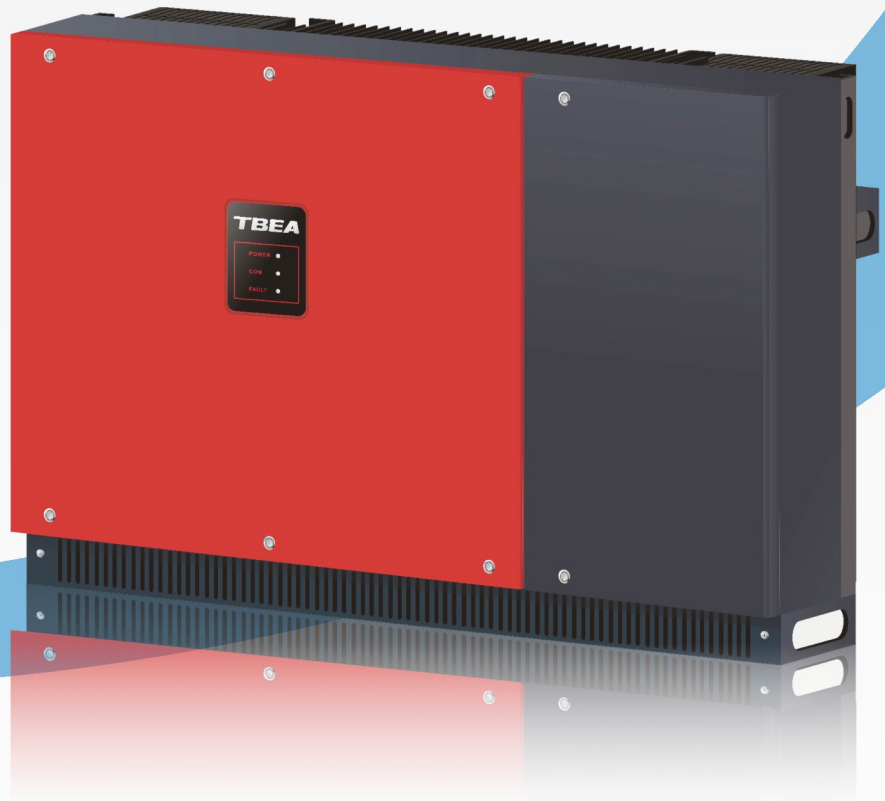


## TS50KTL-PLUS

-  8-channel independent MPPT with higher tracking precision and better adaptability to mountainous region;
-  Rated power 50kW with 1.1 times of long-term overload capacity (safe and reliable);
-  Output voltage is AC 540V with lower AC cable losses;
-  Higher transfer efficiency with 98.5% of China's efficiency.



| Model  | TS50KTL-PLUS                             |
|--|--|
| <b>Input (DC)</b>                            |  |
| Max. DC Power                                | 56.1kW                                   |
| Max. input voltage                           | 1100V                                    |
| Start-up voltage                             | 200V                                     |
| MPPT voltage range                           | 200~1000V                                |
| MPPT voltage range ( Fully-loaded )          | 625~850V                                 |
| Number of MPPT                               | 8  |
| Max. input current                           | 88A                                      |
| <b>Output (AC)</b>                           |  |
| Rated AC Power                               | 50kW                                     |
| Max.AC Power ( PF=1 )                        | 55kW                                     |
| Max. output current                          | 58.8A                                    |
| AC nominal voltage                           | 3/PE, 540Vac                             |
| AC voltage range                             | 432~594Vac                               |
| AC frequency                                 | 50Hz                                     |
| AC frequency range                           | 45~55Hz                                  |
| DC current injection                         | < 0.5%I <sub>pn</sub>                    |
| Adjustable power factor                      | 0.8 ( leading ) -0.8(lagging) adjustable |
| Max.THDI                                     | <3%                                      |
| <b>System parameters</b>                     |  |
| Max. efficiency                              | 99%                                      |
| Chinese weighted efficiency                  | 98.49%                                   |
| Isolation type                               | Transformerless                          |
| Degree of protection                         | IP65                                     |
| Max.self-consumption(night)                  | <3W                                      |
| Operating temperature range                  | -25~60°C                                 |
| Max. permissible value for relative humidity | 0~100%                                   |
| Cooling concept                              | Natural cooling                          |
| Max. operating altitude                      | without derating ≤4000m                  |
| Display                                      | LED                                      |
| Communication interfaces                     | RS485/PLC                                |
| <b>Protection function</b>                   |  |
| Stand-alone grid detection                   | Yes                                      |
| Zero voltage ride through                    | Yes                                      |
| DC Fuse                                      | Yes                                      |
| AC short-circuit protection                  | Yes                                      |
| Leakage current protection                   | Yes                                      |
| DC Switch                                    | Yes                                      |
| RCD detection                                | Yes                                      |
| Insulation monitoring                        | Yes                                      |
| By-pass current detection                    | Yes                                      |
| <b>Mechanical data</b>                       |  |
| Dimensions(W/H/D)                            | 930mm × 550mm × 260mm                    |
| Weight                                       | 60kg                                     |