

# WIT 4-15K-HU

- Max. string current up to 20A
- Max. charging/discharging current of 290A
- 100% unbalanced output: each phase up to 50% rated power
- 200% overload capability for 10 seconds
- Supports Max 6 pcs in parallel
- Integrated with generator input and smart load control



P O W E R  
- I N G  
T O M O R R O W

| Datasheet   | WIT 4K-HU                | WIT 5K-HU                | WIT 6K-HU                | WIT 8K-HU                          | WIT 10K-HU             | WIT 12K-HU               | WIT 15K-HU               |
|---|--------------------------|--------------------------|--------------------------|------------------------------------|------------------------|--------------------------|--------------------------|
| <b>Input data (PV)</b>  |                          |                          |                          |                                    |                        |                          |                          |
| Max. recommended PV power (for module STC)  | 6400W                    | 8000W                    | 9600W                    | 12800W                             | 16000W                 | 19200W                   | 24000W                   |
| Max. input voltage  |                          |                          |                          | 1000V                              |                        |                          |                          |
| Start voltage   |                          |                          |                          | 180V                               |                        |                          |                          |
| Nominal voltage   |                          |                          |                          | 600V                               |                        |                          |                          |
| MPPT voltage range  |                          |                          |                          | 150V-850V                          |                        |                          |                          |
| Max. input current per MPP tracker  | 40A                      |                          |                          | 20A                                |                        | 40A                      |                          |
| Max. short-circuit current per MPP tracker  | 50A                      |                          |                          | 25A                                |                        | 50A                      |                          |
| No. of PV strings per MPP tracker   | 2                        |                          |                          | 1                                  |                        | 2/1                      |                          |
| No. of MPP trackers   | 1                        |                          |                          | 2                                  |                        | 2                        |                          |
| <b>Input/Output AC (Including the Gen Port)</b>                                   |                          |                          |                          |                                    |                        |                          |                          |
| AC input/output nominal power(Grid)   | 8000W/4000W              | 10000W/5000W             | 12000W/6000W             | 16000W/8000W                       | 20000W/10000W          | 24000W/12000W            | 30000W/15000W            |
| Max. AC input/output apparent power(Grid)   | 8800VA/4400VA            | 11000VA/5500VA           | 13200VA/6600VA           | 17600VA/8800VA                     | 22000VA/11000VA        | 26400VA/13200VA          | 33000VA/16500VA          |
| Max. input/output current(Grid)   | 13.4A/6.7A               | 16.7A/8.4A               | 20.0A/10.0A              | 26.6A/13.3A                        | 33.3A/16.7A            | 40.0A/20.0A              | 50.1A/25.0A              |
| Max. input current(GEN/AC couple)   | 12.2A                    | 15.2A                    | 18.2A                    | 24.2A                              | 30.4A                  | 36.4A                    | 45.4A                    |
| Max. continuous AC passthrough current  |                          |                          |                          | 50.1A                              |                        |                          |                          |
| Nominal AC voltage/range  |                          |                          |                          | 220V/380V, 230V/400V, -15%~+10%    |                        |                          |                          |
| Nominal AC grid frequency/range   |                          |                          |                          | 50/60Hz, 45~55Hz/55-65 Hz          |                        |                          |                          |
| Adjustable power factor   |                          |                          |                          | -1...+1                            |                        |                          |                          |
| THDi  |                          |                          |                          | <3%                                |                        |                          |                          |
| AC grid connection type   |                          |                          |                          | 3P3W+PE/3P4W+PE                    |                        |                          |                          |
| <b>Battery data (DC)</b>  |                          |                          |                          |                                    |                        |                          |                          |
| Battery type  |                          |                          |                          | Lead-acid or Lithium-ion           |                        |                          |                          |
| Battery voltage range/Rated voltage   |                          |                          |                          | 40-60V/51.2V                       |                        |                          |                          |
| Max charging and discharging current  | 110A                     | 125A                     | 150A                     | 200A                               | 220A                   | 250A                     | 290A                     |
| BMS communication   |                          |                          |                          | RS485/CAN                          |                        |                          |                          |
| <b>Backup power (AC)*</b>   |                          |                          |                          |                                    |                        |                          |                          |
| Rated AC output power   | 4000W                    | 5000W                    | 6000W                    | 8000W                              | 10000W                 | 12000W                   | 15000W                   |
| Max. AC apparent power  |                          |                          |                          | 2 time of rated power, 10s         |                        |                          |                          |
| Rated AC output voltage   |                          |                          |                          | 220V/380V, 230V/400V               |                        |                          |                          |
| Nominal AC output frequency   |                          |                          |                          | 50/60Hz                            |                        |                          |                          |
| Max. output current   | 12.2A@220V<br>11.6A@230V | 15.2A@220V<br>14.4A@230V | 18.2A@220V<br>20.0A@230V | 24.2A@220V<br>23.2A@230V           | 30.3A@220V<br>29A@230V | 36.4A@220V<br>34.8A@230V | 45.5A@220V<br>43.4A@230V |
| THDv  |                          |                          |                          | 3% (Linear load)                   |                        |                          |                          |
| Load unbalance  |                          |                          |                          | 100% three-phase unbalanced        |                        |                          |                          |
| On/off grid transfer time   |                          |                          |                          | 10ms                               |                        |                          |                          |
| <b>Efficiency</b>   |                          |                          |                          |                                    |                        |                          |                          |
| Max. efficiency   |                          |                          |                          | 97.60%                             |                        |                          |                          |
| European efficiency   |                          |                          |                          | 97.00%                             |                        |                          |                          |
| MPPT efficiency   |                          |                          |                          | 99.90%                             |                        |                          |                          |
| <b>Protection devices</b>   |                          |                          |                          |                                    |                        |                          |                          |
| PV reverse polarity protection  |                          |                          |                          | Yes                                |                        |                          |                          |
| DC switch   |                          |                          |                          | Yes                                |                        |                          |                          |
| DC/AC surge protection  |                          |                          |                          | Type II/Type III                   |                        |                          |                          |
| Insulation resistance monitoring  |                          |                          |                          | Yes                                |                        |                          |                          |
| Residual-current monitoring unit  |                          |                          |                          | Yes                                |                        |                          |                          |
| AC short-circuit protection   |                          |                          |                          | Yes                                |                        |                          |                          |
| Ground fault monitoring   |                          |                          |                          | Yes                                |                        |                          |                          |
| Grid monitoring   |                          |                          |                          | Yes                                |                        |                          |                          |
| Strings monitoring  |                          |                          |                          | Yes                                |                        |                          |                          |
| Anti-islanding protection   |                          |                          |                          | Yes                                |                        |                          |                          |
| PID protection  |                          |                          |                          | Opt                                |                        |                          |                          |
| AFCI function   |                          |                          |                          | Opt                                |                        |                          |                          |
| <b>General</b>  |                          |                          |                          |                                    |                        |                          |                          |
| Dimensions (W / H / D)  |                          |                          |                          | 475/698/240mm                      |                        |                          |                          |
| Weight  |                          |                          |                          | 43kg                               |                        |                          |                          |
| Operating temperature range   |                          |                          |                          | -30°C ... +60°C (> 45°C, derating) |                        |                          |                          |
| Noise   |                          |                          |                          | ≤50dB(A)                           |                        |                          |                          |
| Relative humidity   |                          |                          |                          | 0~100%                             |                        |                          |                          |
| Altitude  |                          |                          |                          | 3000m                              |                        |                          |                          |
| Topology  |                          |                          |                          | Transformerless                    |                        |                          |                          |
| Cooling   |                          |                          |                          | Smart air cooling                  |                        |                          |                          |
| IP degree   |                          |                          |                          | IP66                               |                        |                          |                          |
| Display   |                          |                          |                          | OLED/LED+APP                       |                        |                          |                          |
| Interfaces: RS485/USB   |                          |                          |                          | Yes                                |                        |                          |                          |
| Interfaces: WIFI/LAN  |                          |                          |                          | Yes                                |                        |                          |                          |
| Warranty (5/10 years)   |                          |                          |                          | Yes/Opt                            |                        |                          |                          |
| IEC62109, EC 61000, IEC 61727, EC 62116, IEC 61683, IEC 60068, EN 50549, VDE 4105 |                          |                          |                          |                                    |                        |                          |                          |