

| Model                                | Mars-125KT | Mars-110KT | Mars-100KT |
|--------------------------------------|------------|------------|------------|
| DC side parameters                   |            |            |            |
| Maximum DC voltage                   | 1000V      | 1000V      | 1000V      |
| Minimum DC voltage[1]                | 580V       | 580V       | 580V       |
| DC voltage operating range           | 580~1000V  | 580~1000V  | 580~1000V  |
| Maximum current on DC side           | 216A       | 190A       | 173A       |
| AC side parameters (on-grid)         |            |            |            |
| Rated charge/discharge power         | 125kW      | 110kW      | 100kW      |
| Maximum charge/discharge power       | 150kW      | 132kW      | 120kW      |
| Rated charge/discharge current       | 182A       | 160A       | 145A       |
| Maximum charge and discharge current | 217A       | 192A       | 174A       |
| Rated grid voltage                   | 400V       | 400V       | 400V       |

| Model                                     | Mars-125KT                                                          | Mars-110KT                                                          | Mars-100KT                                                          |
|-------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|---------------------------------------------------------------------|
| Allowable grid voltage range              | 300~460V                                                            | 300~460V                                                            | 300~460V                                                            |
| Rated grid frequency                      | 50Hz/60Hz                                                           | 50Hz/60Hz                                                           | 50Hz/60Hz                                                           |
| Total harmonic distortion rate of current | <3% (at rated power)                                                | <3% (at rated power)                                                | <3% (at rated power)                                                |
| Power factor                              | >0.99                                                               | >0.99                                                               | >0.99                                                               |
| Power factor range                        | -1~1                                                                | -1~1                                                                | -1~1                                                                |
| Overload capacity                         | 1.2Pn for 1 minute                                                  | 1.2Pn for 1 minute                                                  | 1.2Pn for 1 minute                                                  |
| AC side parameters (off-grid)             |                                                                     |                                                                     |                                                                     |
| Rated output voltage                      | 400V                                                                | 400V                                                                | 400V                                                                |
| Voltage deviation                         | ±2%                                                                 | ±2%                                                                 | ±2%                                                                 |
| Total harmonic distortion rate of voltage | <3% (linear load)                                                   | <3% (linear load)                                                   | <3% (linear load)                                                   |
| Efficiency                                |                                                                     |                                                                     |                                                                     |
| Maximum efficiency                        | 98.9%                                                               | 98.9%                                                               | 98.9%                                                               |
| Protection                                |                                                                     |                                                                     |                                                                     |
| DC reverse connection protection          | Yes                                                                 | Yes                                                                 | Yes                                                                 |
| AC short circuit protection               | Yes                                                                 | Yes                                                                 | Yes                                                                 |
| AC output overcurrent protection          | Yes                                                                 | Yes                                                                 | Yes                                                                 |
| Surge protection                          | Level II                                                            | Level II                                                            | Level II                                                            |
| Insulation impedance monitoring           | Yes                                                                 | Yes                                                                 | Yes                                                                 |
| Temperature protection                    | Yes                                                                 | Yes                                                                 | Yes                                                                 |
| Basic parameters                          |                                                                     |                                                                     |                                                                     |
| Dimensions (H*W*D)                        | 220mm (height) x 444mm (width) x 720mm (depth), excluding terminals | 220mm (height) x 444mm (width) x 720mm (depth), excluding terminals | 220mm (height) x 444mm (width) x 720mm (depth), excluding terminals |
| Weight                                    | <58kg                                                               | <58kg                                                               | <58kg                                                               |
| Topology                                  | Transformerless                                                     | Transformerless                                                     | Transformerless                                                     |
| Ambient                                   | -40~+60°C                                                           | -40~+60°C                                                           | -40~+60°C                                                           |

| Model                                        | Mars-125KT                                                                                                                              | Mars-110KT                                                                                                                              | Mars-100KT                                                                                                                              |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| temperature                                  |                                                                                                                                         |                                                                                                                                         |                                                                                                                                         |
| IP rating                                    | IP20 (module and battery pack integrated solution, and the IP rating of the system should reach IP54 or above)                          | IP20 (module and battery pack integrated solution, and the IP rating of the system should reach IP54 or above)                          | IP20 (module and battery pack integrated solution, and the IP rating of the system should reach IP54 or above)                          |
| Working environment<br>Mechanical conditions | Sinusoidal steady state vibration:<br>2Hz ≤f < 9Hz, displacement 1.5mm;<br>9Hz ≤ f < 200Hz, acceleration 5m/s2。<br>GB/T 4798.3-2007 3M2 | Sinusoidal steady state vibration:<br>2Hz ≤f < 9Hz, displacement 1.5mm;<br>9Hz ≤ f < 200Hz, acceleration 5m/s2。<br>GB/T 4798.3-2007 3M2 | Sinusoidal steady state vibration:<br>2Hz ≤f < 9Hz, displacement 1.5mm;<br>9Hz ≤ f < 200Hz, acceleration 5m/s2。<br>GB/T 4798.3-2007 3M2 |
| Cooling mode                                 | Intelligent air cooling                                                                                                                 | Intelligent air cooling                                                                                                                 | Intelligent air cooling                                                                                                                 |
| Maximum working altitude                     | 4,000m (> 3,000m, derated)                                                                                                              | 4,000m (> 3,000m, derated)                                                                                                              | 4,000m (> 3,000m, derated)                                                                                                              |
| Stand-by power consumption                   | <12W                                                                                                                                    | <12W                                                                                                                                    | <12W                                                                                                                                    |
| Characteristic                               |                                                                                                                                         |                                                                                                                                         |                                                                                                                                         |
| DC Interface                                 | OT terminal                                                                                                                             | OT terminal                                                                                                                             | OT terminal                                                                                                                             |
| AC Port                                      | OT terminal                                                                                                                             | OT terminal                                                                                                                             | OT terminal                                                                                                                             |
| Display                                      | LED                                                                                                                                     | LED                                                                                                                                     | LED                                                                                                                                     |
| Communication mode                           | Ethernet、RS485、CAN                                                                                                                      | Ethernet、RS485、CAN                                                                                                                      | Ethernet、RS485、CAN                                                                                                                      |

[1] Minimum DC voltage: In the scenario of off-grid operation requirements, the minimum DC voltage should not be less than 680 V DC.