**Specification**

**1.Electrical performance**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Model** | | | 1K | 1KS | 2K | KS | 3K | 3KS |
| **Rating** | | | 1KVA/900W | | 2KVA/1800W | | 3KVA/2700W | |
| Input | Input system | | Single phase & earth ground | | | | | |
| Voltage range | | (90±5)VAC~ (300±5)VAC | | | | | |
| Power factor | | ≥0.99 | | | | | |
| Voltage range of bypass | | (80±5)VAC~ (286±5)VAC (default: 80VAC~264VAC Could be adjusted by software) | | | | | |
| Output | Output system | | Single phase & earth ground | | | | | |
| Rated voltage | | 220VAC ① | | | | | |
| Power factor | | 0.9 | | | | | |
| Voltage precision | | ±2% | | | | | |
| Output frequency | Normal mode | 1.The output frequency synchronizes with the input frequency when the input frequency is in the range of 46Hz~ 54Hz.  2.The output frequency is 50Hz when the input frequency is not in the range of 46Hz~ 54Hz.  3.Can be set as 60Hz. | | | | | |
| Battery mode |
| Inverter overload capacity (Utility power, 25℃) | | 105% ± 5% < Load ≤ 125% ± 5% 50s transfer to bypass  125% ± 5% < Load ≤150% ± 5% 25s transfer to bypass  Load > 150% ± 5%, 300ms transfer to bypass | | | | | |
| Transfer time | | 0ms (Normal mode←→ Battery mode) | | | | | |
| <4ms (Normal mode←→Bypass mode) | | | | | |
| Crest factor | | 3:1 | | | | | |
| Battery | Batteries voltage | | 36VDC | | 72VDC/96VDC | | 96VDC/72VDC | |
| Battery quantity | | 3 | None | 6/8 | None | 8/6 | None |
| Battery Type | | Sealed maintenance-free lead –acid battery of battery voltage 12V/7AH | | | | | |
| Backup Time (25℃) | | Full load≥5min (Standard) | | | | | |
| Charge current | | 1A | 6.5A | 1A | 5.5A | 1A | 5.5A |

① Note1: Output voltage can be set: 200V/208V/220V/230V/240V.

**2. Mechanical**

|  |  |  |
| --- | --- | --- |
| **Model** | **L\*W\*H (mm)** | **Weight (kg)** |
| 1K | 350×144×230 | 11.5 |
| 1KS | 350×144×230 | 6 |
| 2K(72VDC)/2K(96VDC) | 425×190×328 | 22.5/27 |
| 2KS | 425×190×328 | 10 |
| 3K(96VDC)/3K(72VDC) | 425×190×328 | 27.5/23 |
| 3KS | 425×190×328 | 11 |

**3. Environmental**

|  |  |
| --- | --- |
| **Item** | **Normal range** |
| Ambient temperature | 0℃~ 40℃ |
| Environment humidity | 20%~ 90% (No condensation) |
| Altitude | Lower than 1000m: no derating  Over 1000m: 1% derating for every 100m rise |
| Storage temperature | -15℃~ 45℃ |