SH3K6/SH4K6



Hybrid Inverter



FLEXIBLE APPLICATION

- Convenient for new installation and retrofit
- Compatible with both lithium-ion and leadacid batteries
- Energy trading ready with 3rd-party EMS to maximise ROI



SMART MANAGEMENT

- High self-consumption with optimised built-in EMS
- Free online monitoring to enhance energy management for end user, installer and retailer
- Remote firmware update and customisable settings



SAFE AND RELIABLE

- Built-in surge arresters and residual current protection
- Durable finish with high anti-corrosion enclosure

EASY INSTALLATION

- Custom-fit mounting plate with built-in level • Fast and easy commissioning via front panel LCD or App
- Lightweight and compact



| Type designation | SH3K6 | SH4K6 |
|---------------------------------------|--|----------------------------|
| PV Input Side Data | | |
| Max. PV input power | 6500 V | V |
| Max. PV input voltage | 600 V | |
| Startup voltage | 125 V | |
| Nominal input voltage | 360 V | |
| MPP voltage range | 125 V – 560 V | |
| MPP voltage range for nominal power | 180 V – 520 V | 220 V – 520 V |
| No. of MPPTs | 2 | |
| Max. number of PV strings per MPPT | 1/1 | |
| Max. PV input current | 22 A (11 A / 11 A) | |
| Max. current for input connector | 12 A | |
| Short-circuit current of PV input | 24 A (12 A / | (12 A) |
| AC Input and Output Data | | |
| Nominal AC output power to grid | 3680 W | 4600 W |
| Max. AC output apparent power to grid | 3680 VA | 4600 VA |
| Max. AC input power from grid | 3000 W | 3000 W |
| Nominal AC ouput current | 16 A | 20 A |
| Max. AC output current | 16 A | 20 A |
| Nominal AC voltage | 230 Va | |
| AC voltage range | 180 Vac – 276 Vac (this may vary with grid standards) | |
| Nominal grid frequency | 50 Hz | |
| Grid frequency range | | |
| THD (Total Harmonic Distortion) | 45 Hz – 55 Hz (this may vary with grid standards) < 3 % (of nominal power) | |
| DC current injection | < 0.5 % (of nominal power) | |
| Power factor | > 0.99 at default value at nominal power (adj. 0.8 overexcited / leading–0.8 underexcited / lagging) | |
| Power lactor | | |
| | (adj. 0.8 overexcited / leading=0 | .8 underexcited / lagging) |
| Protection | | |
| Anti-islanding protection | Yes | |
| AC short circuit protection | Yes | |
| Leakage current protection | Yes | |
| DC switch (solar) | Yes | |
| DC fuse (solar) | No | |
| DC fuse (battery) | Yes | |
| Overvoltage Category | III [MAINS], II [PV] [BATTERY] | |
| Battery Data | | |
| Battery type | Li-ion battery / Lead-acid battery | |
| Battery voltage | 48 V (32 V-70 V) | |
| Max. charge / discharge current | 65 A / 65 | |
| System Data | · · · | |
| Max. efficiency | > 97.7 9 | 24 |
| European efficiency | > 97.0 % | |
| Max. charge / discharge efficiency | | > 97.2 % |
| Isolation method (solar) | > 94.0 % | |
| | Transformerless | |
| Isolation method (battery) | HF | |
| Ingress protection rating | IP65 | |
| Night power consumption | <1W | |
| Operating ambient temperature range | -25 ℃ to 60 ℃ (> 45 ℃ derating) | |
| Allowable relative humidity range | 0 %-100 % | |
| Cooling method | Natural convection | |
| Max. operating altitude | 2000 m | |
| Display | Graphic LCD | |
| Communication | 2 × RS485, Wi-Fi (optional), CAN, Ethernet | |
| Analogue inputs | PT1000 | |
| Power management | 1 × Digital Output | |
| Earth alarm | 1 × Digital Output, email, buzzer inside | |
| PV connection type | MC4 | |
| AC connection type | Plug and play connector | |
| Certification | VDE-AR-N-4105, DIN VDE0126-1-1, G83/2, G59/3, CEI 0-21, IEC 62109-1, IEC62109-2, EN 62477-1, EN 61000-6-1/-3 | |
| Mechanical Data | | |
| Dimensions (W * H * D) | 457 mm * 515 mn | n * 170 mm |
| Mounting method | Wall-mounting | |
| Mounting method | 22 kg | |

