


LCD Setting

After pressing and holding "ENTER" button for 2 seconds, the unit will enter setting mode. Press "UP" or "DOWN" button to select setting programs. And then, press "ENTER" or "MENU" button to confirm the selection and exit.

Setting Programs:

| Program | Description | Selectable option |
|---------|----------------------------------|---|
| 00 | Exit setting mode | Escape [00] ESC |
| 01 | Output source priority selection | (default) [0] SUB <p>Solar energy provides power to the loads as first priority, If solar energy is not sufficient to power all connected loads, Utility energy will supply power to the loads at the same time. The battery energy will supply power to the load only in the condition of the utility is unavailable. If the solar is unavailable, the utility will charge the battery until the battery voltage reaches the setting point in program 21. If the solar is available, but the battery voltage is lower than the setting point in program 20, the utility will charge the battery until the battery voltage reaches the setting point in program 20 to protect the battery from damage.</p> |
| | | [0] SBU <p>Solar energy provides power to the loads as first priority, If solar energy is not sufficient to power all connected loads, battery energy will supply power to the loads at the same time. Utility provides power to the loads only when battery voltage drops to either low-level warning voltage or the setting point in program 20 or solar and battery is not sufficient. The battery energy will supply power to the load in the condition of the utility is unavailable or the battery voltage is higher than the setting point in program 21 (when BLU is selected) or program 20 (when LBU is selected). If the solar is available, but the voltage is lower than the setting point in program 20, the utility will charge the battery until the battery voltage reaches the setting point in program 20 to protect the battery from damage.</p> |
| | | [0] SOL <p>Solar energy provides power to the loads as first priority. If battery voltage has been higher than the setting point in program 21 for 5 minutes, and the solar energy has been available for 5 minutes too, the inverter will turn to battery mode, solar and battery will provide power to the loads at the same time. When the battery voltage drops to the setting point in program 20, the inverter will turn to bypass mode, utility provides power to the load only, and the solar will charge the battery at the same time.</p> |

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|----|--|--|---|
| | | [0] UT ₁ | Utility will provide power to the loads as first priority. Solar and battery energy will provide power to the loads only when utility power is not available. |
| 02 | AC input voltage range | Appliances (default) [02] AP ₁ | If selected, acceptable AC input voltage range will be within 90-280VAC. |
| | | UPS [02] UP ₅ | If selected, acceptable AC input voltage range will be within 170-280VAC. |
| | | GEN [02] GE ₁ | When the user uses the device to connect the generator, select the generator mode. |
| | | VDE [02] VD _E | If selected, acceptable AC input voltage range will conform to VDE4105 (184VAC-253VAC) |
| 03 | Output voltage | [03] 230 _v | Set the output voltage, (220VAC-240VAC) |
| 04 | Output frequency | 50Hz(default) [04] 500 _{Hz} | 60Hz [04] 600 _{Hz} |
| 05 | Solar supply priority | (default) [05] BL _U | Solar energy provides power to charge battery as first priority. When the utility is available, if the battery voltage is lower than the setting point in program 21, the solar energy will never supply to the load or feed into the grid, only charge the battery. If the battery voltage is higher than the setting point in program 21, the solar energy will supply to the load or feed into the grid or recharge the battery. |
| | | [05] LB _U | Solar energy provides power to the loads as first priority. If the battery voltage is lower than the setting point in program 20, the solar energy will never supply to the load or feed into the grid, only charge the battery. If the battery voltage is higher than the setting point in program 20, the solar energy will supply to the load or feed into the grid or recharge the battery. |
| 06 | Overload bypass: When enabled, the unit will transfer to line mode if overload occurs in battery mode. | Bypass disable [06] bY _d | Bypass enable(default) [06] bY _E |
| 07 | Auto restart when overload occurs | Restart disable(default) [07] LT _d | Restart enable [07] LT _E |
| 08 | Auto restart when over temperature occurs | Restart disable(default) [08] tT _d | Restart enable [08] tT _E |

| | | | |
|---|--|---|--|
| 10 | Charger source priority: To configure charger source priority | If this inverter/charger is working in Line, Standby or Fault mode, charger source can be programmed as below: | |
| | | Solar first [10] C50 | Solar energy will charge battery as first priority. Utility will charge battery only when solar energy is not available. |
| | | Solar and Utility (default) [10] 5NU | Solar energy and utility will charge battery at the same time. |
| | | Only Solar [10] 050 | Solar energy will be the only charger source no matter utility is available or not |
| If this inverter/charger is working in Battery mode, only solar energy can charge battery. Solar energy will charge battery if it's available and sufficient. | | | |
| 11 | Maximum charging current: To configure total charging current for solar and utility chargers. (Max. charging current = utility charging current + solar charging current) | 80A (default) [1] 80 ^A | Setting range is from 1 A to 100A for 4kw model and from 1A to 120A for 6kw model Increment of each click is 1A. |
| 13 | Maximum utility charging current | 30A (default) [13] 30 ^A | Setting range is from 1A to 80A for 4k model and from 1A to 100A for 6kw model Increment of each click is 1A. |
| 14 | Battery type | AGM (default) [14] AGM | Flooded [14] FLD |
| | | GEL [14] GEL | LEAD [14] LEA |
| | | Lithium Ion [14] LI | User-Defined [14] USE |
| | | If "User-Defined" "LI" is selected, When the lithium battery and the inverter do not communicate properly, the battery icon  will flash. If "LI" is selected, the battery icon does not flash, program of 11, 17, 18 will be set automatically, No need for further setting. If "User-Defined" is selected, battery charge voltage and charge current can be set up in program 11, 17 and 18. | |
| 17 | Bulk charging voltage (C.V voltage) | 24V model default setting: 28.2V [17] CV 28.2 ^V | |
| | | If "User-Defined" "LI" is selected in program 14, this program can be set up. Setting range is from 24.0V to 29.2V for 24Vdc model. Increment of each click is 0.1V. | |
| | | 48V model default setting: 56.4V [17] CV 56.4 ^V | |
| | | If "User-Defined" "LI" is selected in program 14, this program can be set up. Setting range is from 48.0V to 58.4V for 48Vdc model. Increment of each click is 0.1V. | |

| | | | |
|--|---|--|---|
| 18 | Floating charging voltage | 24V model default setting: 27.0V [18]FLV 27.0 ^v | |
| | | If "User-Defined" "LI" is selected in program 14, this program can be set up, Setting range is from 24.0V to 29.2V for 24Vdc model. Increment of each click is 0.1V. | |
| | | 48V model default setting: 54.0V [18]FLV 54.0 ^v | |
| 19 | Low DC cut-off voltage or SOC percentage | 24V model default setting: 21V [19]COV 21 ^v | |
| | | If "User-Defined" "LI" is selected in program 14, this program can be set up. Setting range is from 21.0V to 27.0V for 24Vdc model. Increment of each click is 0.1V. Low DC cut-off voltage will be fixed to setting value no matter what percentage of load is connected. | |
| | | 48V model default setting: 42V [19]COV 42 ^v | |
| | | If "User-Defined" "LI" is selected in program 14, this program can be set up. Setting range is from 42.0V to 54.0V for 48Vdc model. Increment of each click is 0.1V. Low DC cut-off voltage will be fixed to setting value no matter what percentage of load is connected. | |
| | | SOC 10% (default) SOC [19] 10 % | |
| If "User-Defined" "LI" is selected in program 14, and the SOC percentage method is selected in program 37, the low DC cut-off SOC percentage will be able to be set. Low DC cut-off SOC percentage will be fixed to setting value no matter what percentage of load is connected. Setting range is from 0%-90%. Increment of each click is 1%. | | | |
| 20 | Battery stop discharging voltage when grid is available | Available options for 24V models: 24.0V (default) Setting range is from 22.0V to 29.0V. [20]24.0 ^v Increment of each click is 0.1V. | |
| | | Available options for 48V models: 48.0V (default) Setting range is from 44.0V to 58.0V. [20]48.0 ^v Increment of each click is 0.1V. | |
| | | Available options for 24V models: 27.0V (default) Setting range is from 22.0V to 29.0V. [21]27.0 ^v Increment of each click is 0.1V. | |
| 21 | Battery stop charging voltage when grid is available | Available options for 48V models: 54.0V (default) Setting range is from 44.0V to 58.0V. [21]54.0 ^v Increment of each click is 0.1V. | |
| | | Available options for 24V models: 27.0V (default) Setting range is from 22.0V to 29.0V. [21]27.0 ^v Increment of each click is 0.1V. | |
| | | Available options for 48V models: 54.0V (default) Setting range is from 44.0V to 58.0V. [21]54.0 ^v Increment of each click is 0.1V. | |
| 22 | Auto turn page | (default) [22]PLe | If selected, the display screen will auto turn the display page. |
| | | [22]PLe ^d | If selected, the display screen will stay at latest screen user finally switches. |























| | | | |
|----|--|---|---|
| 23 | Backlight control | Backlight on [23] LON | Backlight off (default) [23] LOF |
| 24 | Alarm control | Alarm on (default) [24] 6ON | Alarm off [24] 6OF |
| 25 | Beeps while primary source is interrupted | Alarm on [25] AON | Alarm off (default) [25] AOF |
| 27 | Record Fault code | Record enable(default) [27] FON | Record disable [27] FOF |
| 29 | Power saving mode enable/ disable | Saving mode disable (default) [29] SdS | If disable, no matter connected load is low or high, the on/off status of inverter output will not be effected. |
| | | Saving mode enable [29] SEEN | If enable, the output of inverter will be off when connected load is pretty low or not detected. |
| 30 | Battery equalization | Battery equalization [30] EEN | Battery equalization disable(default) [30] EdS |
| 31 | Battery equalization voltage | Available options for 24V models:28.8V [31] E4 288 ^v | |
| | | Available options for 48V models:57.6V [31] E4 576 ^v | |
| | | Setting range is from 24.0V to 29.2V for 24V model and 48.0V to 58.4V for 48V model. Increment of each click is 0.1V. | |
| 33 | Battery equalization time | 60min(default) [33] 60 | Setting range is from 5 min to 900min. Increment of each click is 5min. |
| 34 | Battery equalization timeout | 120min(default) [34] 120 | Setting range is from 5 min to 900min. Increment of each click is 5min. |
| 35 | Equalization interval | 30days(default) [35] 30d | Setting range is from 0 to 90days. Increment of each click is 1 day. |
| 36 | Equalization activated immediately | Enable [36] AEN | Disable(default) [36] AdS |
| | | If equalization function is enabled in program 30, this program can be set up. If "Enable" is selected in this program, it's to activate battery equalization immediately and LCD main page will shows" E9 ". If "Disable" is selected, it will cancel equalization function until next activated equalization time arrives based on program 35 setting. At this time, " E9 " will be shown in LCD main page too. | |
| 37 | BMS control method | Voltage method(default) [37] 4OL | SOC Percentage method [37] 5OC |
| 38 | Battery stop discharging percent When SOC is available | 20 % (default) [38] 20 % | Setting range is from 5%-95% Increment of each click is 1%. |










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|----|---|--|---|
| 39 | Battery stop charging percent When SOC is available | 95 % (default) [39] 95 % | Setting range is from 10%-100% Increment of each click is 1%. |
| 40 | BMS communication | (default) [40] 1dP | when the communication between BMS and converter is faulted ,the converter still charge or discharge from the battery |
| | | [40] U n1 | when the communication between BMS and converter is faulted ,the converter stop charging or discharging from the battery |
| 41 | Lithium battery protocol | SEL[40] 17 | Setting range is from 0 to 31 Increment of each click is 1 |
| | | If LI is selected in program 14, program 41 can be set. After the program 41 is set,please restart the inverter to take effect.For example,if you set the program 41 to 17,the inverter can communicate with the must lithium battery. | |
| 42 | Parallel address Setting (After the program is set, please restart the inverter to take effect. Before confirming that the settings are in effect ,please disconnect the connection between the machine outputs) | Single:This inverter is used in single phase application | Parallel:This inverter is operated in parallel system (you can set the first machine to 1P1,the second machine to 1P2,the third machine to 1P3,and so on) |
| | | [d] [42] 0 | [d] [42] 1P1 |
| | | When the inverter is operated in 3-phase application,set up inverter to be operated in specific phase | |
| | | A phase:(you can set the first machine in phase A to 3A1) | B phase:(you can set the first machine in phase B to 3B1) |
| | | [d] [42] 3A1 | [d] [42] 3B1 |
| | | C phase:(you can set the first machine in phase C to 3C1) | |
| | | [d] [42] 3C1 | |
| 59 | Dual output enable/disable | disable [59] 5d5 | If disable,the second load will follow the main load. |
| | | (default) enable [59] 5e7 | If enable,the program 60 will work. |
| 60 | Setting cut-off voltage point or SOC percentage on the second output(L2) if "0" is selected in program 42 (Program 37 settings VOL or SOC) | 24V model:22.0V (default) 40L 22.0 v | Setting range is from 22.0V to 29.0V. Increment of each click is 0.1V. |
| | | 48V model:44.0V (default) 40L 44.0 v | Setting range is from 44.0V to 58.0V. Increment of each click is 0.1V. |
| | | 25% (default) 50C 25 % | Setting range is from 20% to 95%. Increment of each click is 1%. |

After pressing and holding "MENU" button for 6 seconds, the unit will enter reset model. Press "UP" and "DOWN" button to select programs. And then, press "ENTER" button to exit.















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|-----|-----------------------|-----------------------|
| SET | (default) [dt] nft | Reset setting disable |
| | [dt] f5t | Reset setting enable |

Fault Reference Code

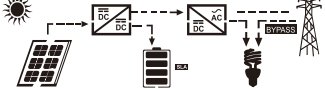
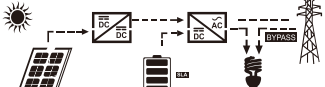
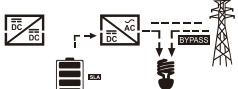
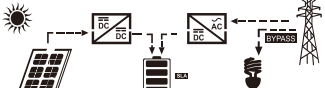

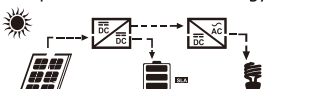

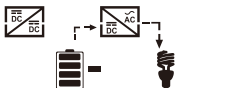
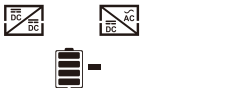
| Fault Code | Fault Cause | LCD Indication |
|------------|---|--|
| 01 | Fan is locked when inverter is off | [01]  |
| 02 | Inverter transformer over temperature | [02]  |
| 03 | Battery voltage is too high | [03]  |
| 04 | Battery voltage is too low | [04]  |
| 05 | Output short circuited | [05]  |
| 06 | Inverter output voltage is high | [06]  |
| 07 | Overload time out | [07]  |
| 08 | Inverter bus voltage is too high | [08]  |
| 09 | Bus soft start failed | [09]  |
| 11 | Main relay failed | [11]  |
| 21 | Inverter output voltage sensor error | [21]  |
| 22 | Inverter grid voltage sensor error | [22]  |
| 23 | Inverter output current sensor error | [23]  |
| 24 | Inverter grid current sensor error | [24]  |
| 25 | Inverter load current sensor error | [25]  |
| 26 | Inverter grid over current error | [26]  |
| 27 | Inverter radiator over temperature | [27]  |
| 31 | Solar charger battery voltage class error | [31]  |
| 32 | Solar charger current sensor error | [32]  |
| 33 | Solar charger current is uncontrollable | [33]  |
| 41 | Inverter grid voltage is low | [41]  |
| 42 | Inverter grid voltage is high | [42]  |

| | | |
|----|--|--|
| 43 | Inverter grid under frequency | [43]  |
| 44 | Inverter grid over frequency | [44]  |
| 51 | Inverter over current protection error | [51]  |
| 52 | Inverter bus voltage is too low | [52]  |
| 53 | Inverter soft start failed | [53]  |
| 55 | Over DC voltage in AC output | [55]  |
| 56 | Battery connection is open | [56]  |
| 57 | Inverter control current sensor error | [57]  |
| 58 | Inverter output voltage is too low | [58]  |

Warning Indicator

| Warning Code | Warning Event | Icon flashing |
|--------------|--|--|
| 61 | Fan is locked when inverter is on. | [61]  |
| 62 | Fan 2 is locked when inverter is on. | [62]  |
| 63 | Battery is over-charged. | [63]  |
| 64 | Low battery | [64]  |
| 67 | Overload | [67]   |
| 70 | Output power derating | [70]  |
| 72 | Solar charger stops due to low battery | [72]  |
| 73 | Solar charger stops due to high PV voltage | [73]  |
| 74 | Solar charger stops due to over load | [74]  |
| 75 | Solar charger over temperature | [75]  |
| 76 | PV charger communication error | [76]  |
| 77 | Parameter error | [77]  |
| 90 | Lithium battery full (single model) | [90]  |

Operating State Description

| Operating State | Description | LCD display |
|--|--|--|
| <p>Match load state</p> <p>Note: DC power produced from your solar array is converted by the inverter into AC power, which is then sent to your main electrical panel to be used by your household appliances. Any excess power generated is not sold back to the grid, but stored in battery.</p> | <p>PV energy is charger into the battery or converted by the inverter to the AC load</p> | <p>PV energy power is larger than inverter power</p>  |
| | | <p>PV energy power is smaller than inverter power</p>  |
| | | <p>PV is off</p>  |
| <p>Charge state</p> | <p>PV energy and grid can charge batteries.</p> |  |
| <p>Bypass state</p> | <p>Error are caused by inside circuit error or external reasons such as over temperature, output short circuited and so on.</p> |  |
| <p>Off-Grid state</p> | <p>The inverter will provide output power from battery and PV power.</p> | <p>Inverter power loads from PV energy.</p>  |
| | | <p>Inverter power loads from battery and PV energy.</p>  |
| | | <p>Inverter power loads from battery only.</p>  |
| <p>Stop mode</p> | <p>The inverter stop working if you turn off the inverter by the soft key or error has occurred in the condition of no grid.</p> |  |

Display Setting

The LCD display information will be switched in turns by pressing "UP" or "DOWN" key. The selectable information is switched as below order: battery voltage, battery current, inverter voltage, inverter current, grid voltage, grid current, load in Watt, load in VA, grid frequency, inverter frequency, PV voltage, PV charging power, PV charging output voltage, PV charging current.

| Selectable information | LCD display | |
|---|---|--|
| Battery voltage/DC discharging current | ^{BATT} 260 ^V | 480 ^A |
| Inverter output voltage/Inverter output current | 229 ^V | ^{INV} 130 ^A |
| Grid voltage/Grid current | 229 ^V | ^{GRID} 80 ^A |
| Load in Watt | 100 ^{KW} | ^{LOAD} 120 ^{KVA} |
| Grid frequency/Inverter frequency | ^{INPUT} 500 ^{Hz} | ^{INV} 500 ^{Hz} |
| PV voltage and PV charging current | ^{INPUT PV} 360 ^V | 806 ^A |
| PV charger output voltage and Power | ^{PV} 430 ^V | ^{OUTPUT} 320 ^{KW} |

SPECIFICATIONS

Table 1 Line Mode Specifications

| INVERTER MODEL | 4KW DC24V | 6KW DC48V |
|----------------------------|--|-----------|
| Input Voltage Waveform | Sinusoidal (utility or generator) | |
| Nominal Input Voltage | 230Vac | |
| Low Loss Voltage | 90Vac±7V(APL,GEN);170Vac±7V(UPS); 186Vac±7V(VDE) | |
| Low Loss Return Voltage | 100Vac±7V(APL,GEN);180Vac±7V(UPS); 196Vac±7V(VDE) | |
| High Loss Voltage | 280Vac±7V(UPS,APL,GEN); 253Vac±7V(VDE) | |
| High Loss Return Voltage | 270Vac±7V(UPS,APL,GEN); 250Vac±7V(VDE) | |
| Max AC Input Voltage | 300Vac | |
| Nominal Input Frequency | 50HZ/60HZ(Auto detection) | |
| Low Loss Frequency | 40HZ±1HZ(UPS,APL,GEN); 47.5HZ±0.05HZ(VDE) | |
| Low Loss Return Frequency | 42HZ±1HZ(UPS,APL,GEN); 47.5HZ±0.05HZ(VDE) | |
| High Loss Frequency | 65HZ±1HZ(UPS,APL,GEN); 51.5HZ±0.05HZ(VDE) | |
| High Loss Return Frequency | 63HZ±1HZ(APL,GEN,UPS); 50.05HZ±0.05HZ(VDE) | |

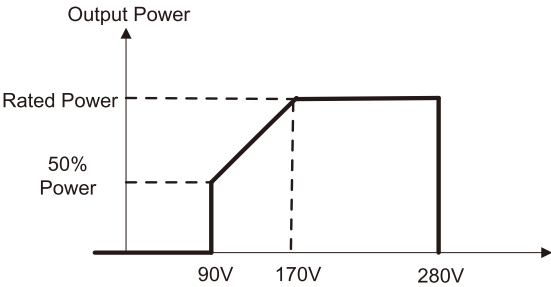
| | |
|---|--|
| Output Short Circuit Protection | Line mode: Circuit Breaker Battery mode: Electronic Circuits |
| Efficiency (Line Mode) | >95%(Rated R load, battery full charged) |
| Transfer Time | 10ms typical (UPS,VDE) 20ms typical (APL) < 50ms typical (For parallel operation) |
| Output power derating: When AC input voltage drops to 95V or 170V depending on models, the output power will be derated. | 230Vac model:  |

Table 2 Inverter Mode Specifications

| INVERTER MODEL | 4KW DC24V | 6KW DC48V |
|-------------------------------|-----------------------------------|-----------|
| Rated Output Power | 4000W | 6000W |
| Output Voltage Waveform | Pure Sine Wave | |
| Output Voltage Regulation | 230Vac±5% | |
| Output Frequency | 60Hz or 50Hz | |
| Peak Efficiency | 92% | |
| Overload Protection | 5s@≥110% load; 10s@105%~110% load | |
| Nominal DC Input Voltage | 24Vdc | 48Vdc |
| Cold Start Voltage | 23.0Vdc | 46.0Vdc |
| Low DC Warning Voltage | | |
| @ load < 50% | 23.0Vdc | 46.0Vdc |
| @ load ≥ 50% | 22.0Vdc | 44.0Vdc |
| Low DC Warning Return Voltage | | |
| @ load < 50% | 23.5Vdc | 47.0Vdc |
| @ load ≥ 50% | 23.0Vdc | 46.0Vdc |
| Low DC Cut-off Voltage | | |
| @ load < 50% | 21.5Vdc | 43.0Vdc |
| @ load ≥ 50% | 21.0Vdc | 42.0Vdc |
| High DC Recovery Voltage | 29Vdc | 58Vdc |
| High DC Cut-off Voltage | 30Vdc | 60Vdc |

Table 3 Charge Mode Specifications

| Utility Charging Mode | | | |
|--|------------------------|--|---------------------|
| INVERTER MODEL | | 4KW DC24V | 6KW DC48V |
| Charging Current @ Nominal Input Voltage | | 80A _{MAX} | 100A _{MAX} |
| Floating charging voltage | AGM / Gel/LEAD Battery | 27.4Vdc | 54.8Vdc |
| | Flooded battery | 27.4Vdc | 54.8Vdc |
| Bulk charging voltage (C.V voltage) | AGM / Gel/LEAD Battery | 28.8Vdc | 57.6Vdc |
| | Flooded battery | 28.4Vdc | 56.8Vdc |
| Charging Algorithm | | 3-Step(Flooded Battery, AGM/Gel/LEAD Battery), 4-Step(LI) | |
| Solar Charging Mode | | | |
| INVERTER MODEL | | 4KW DC24V | 6KW DC48V |
| Rated Power | | 5000W | 6000W |
| MPPT charger | | | |
| solar charging current | | 100A | 120A |
| Max.PV Array Open Circuit Voltage | | 500Vdc max (single model) /450Vdc max (parallel model) | |
| PV Array MPPT Voltage Range | | 90~430Vdc | 120~430Vdc |
| Min battery voltage for PV charge | | 17Vdc | 34Vdc |
| Battery Voltage Accuracy | | +/-0.3% | |
| PV Voltage Accuracy | | +/-2V | |
| Charging Algorithm | | 3-Step(Flooded Battery, AGM/Gel/LEAD Battery), 4-Step(LI) | |

| | | |
|--|-----------|-----------|
| Charging algorithm for lead acid battery | | |
| Charging algorithm for Lithium battery | | |
| Joint Utility and Solar Charging | | |
| INVERTER MODEL | 4KW DC24V | 6KW DC48V |
| Max Charging Current | 100A | 120A |
| Default Charging Current | 80A | |

Table 4 General Specifications

| | | |
|-----------------------------|-------------|-------------|
| INVERTER MODEL | 4KW DC24V | 6KW DC48V |
| Safety Certification | CE | |
| Operating Temperature Range | 0°C to 50°C | |
| Storage temperature | -15°C~ 60°C | |
| Dimension (D*W*H), mm | 322*486*134 | 309*505*147 |
| Net Weight, kg | 9.5 | 12.5 |

TROUBLE SHOOTING

| Problem | LCD/LED/Buzzer | Explanation / Possible cause | What to do |
|---|---|--|---|
| Unit shuts down automatically during startup process. | LCD/LEDs and buzzer will be active for 3 seconds and then complete off. | The battery voltage is too low (< 1.91V/Cell) | 1. Re-charge battery. 2. Replace battery. |
| No response after power on. | No indication. | 1. The battery voltage is far too low. (<1.4V/Cell) 2. Battery polarity is connected reversed. Input protector is tripped | 1. Check if batteries the wiring are connected and well. 2. Re-charge battery. 3. Replace battery. |
| Mains exist but the unit works in battery mode. | Input voltage is displayed as 0 on the LCD and green LED is flashing. | Input protector is tripped | Check if AC breaker is tripped and AC wiring is connected well. |
| | Green LED is flashing. | Insufficient quality of AC power (Shore or Generator) | 1. Check if AC wires are too thin and/or too long. 2. Check if generator (if applied) is working well or if input voltage range setting is correct.(Appliance=>wide) |
| When the unit is turned on, internal relay is switched on and off repeatedly. | LCD display and LEDs are flashing | Battery is disconnected. | Check if battery wires are connected well. |
| Buzzer beeps continuously and red LED is on. | Fault code 07 | Overload error. The inverter is overload 110% and time is up. | Reduce the connected load by switching off some equipment. |
| | Fault code 05 | Output short circuited. | Check if wiring is connected well and remove abnormal load. |
| | Fault code 02 | Internal temperature of inverter component is over 90°C. | Check whether the air flow of the unit is blocked or whether the ambient temperature is too high. |
| | Fault code 03 | Battery is over-charged. | Return to repair center. |
| | | The battery voltage is too high. | Check if spec and quantity of batteries are meet requirements. |
| | Fault code 01 | Fan fault | Replace the fan. |
| | Fault code 06/58 | Output abnormal (Inverter voltage below than 202Vac or is higher than 253Vac) | 1. Reduce the connected load. 2. Return to repair center |
| | Fault code 08/09/53/57 | Internal components filed. | Return to repair center |
| | Fault code 51 | Over current or surge | Restart the unit, if the error happens again, please return to repair center. |
| Fault code 52 | Bus voltage is too low | | |
| Fault code 55 | Output voltage is unbalanced | Return to repair center. | |
| Fault code 56 | Battery is not connected well or fuse is burnt. | If the battery is connected well, please return to repair center. | |

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GUARANTEECERTIFICATE

Serial No.: _____

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|------------------|--|-----------|--------------------|----------------|--|
| Customer's Name | | | | Contact Person | |
| Address | | | | Telephone No. | |
| Product/Model: | | Post Code | | Fax No. | |
| Date of purchase | | | Expire Date | | |
| Dealer Signature | | | Customer Signature | | |

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