



X3-FORTH

40 kW-LV / 50 kW-LV / 60 kW-LV / 70 kW-LV 75 kW / 80 kW / 100 kW / 110 kW / 120 kW 125 kW / 136 kW-MV / 150 kW-MV

Installation Manual

Version 0.0

elanulin the OR code or at

www.solaxpower.com

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Safety

General Notice

- 1. Contents may be periodically updated or revised. SolaX reserves the right to make improvements or changes in the product(s) and the program(s) described in this manual without the prior notice.
- 2. The installation, maintenance and grid-related setting can only be performed by qualified personnel who:
 - Are licensed and/or satisfy state and local jurisdiction regulations;
 - Have good knowledge of this manual and other related documents.
- 3. Before installing the device, carefully read, fully understand and strictly follow the detailed instruction of the user manual and other related regulations. SolaX shall not be liable for any consequences caused by the violation of the storage, transportation, installation, and operation regulations specified in this document and the user manual.
- 4. Use insulated tools when installing the device. Individual protective tools must be worn during installation, electrical connection and maintenance.
- 5. Please visit the website www.solaxpower.com of SolaX for more information.

Descriptions of Labels

| CE | CE mark of conformity | TOWER dates | TUV certification |
|----|--|----------------|---|
| | RCM mark of conformity | | Caution, hot surface |
| A | Caution, risk of electric shock | | Caution, risk of danger |
| | Read the enclosed documentations | X | Do not dispose of the inverter together with household waste. |
| | Additional grounding point | | |
| | Do not operate this inverter until generation suppliers. | l it is isolat | ed from mains and on-site PV |
| | Danger of high voltage. Do not touch live parts for 5 min sources. | utes after | disconnection from the power |
| | | | |

DANGER!

Lethal danger from electrical shock due to the inverter

- Only operate the inverter when it is technically faultless. Otherwise, electric shock or fire may occur.
- Do not open the enclosure in any case without authorization from SolaX. Unauthorized opening will void the warranty and cause lethal danger or serious injury due to electric shock.

\Lambda DANGER!

Lethal danger from electrical shock due to the PV

- When exposed to sunlight, high DC voltage will be generated by PV modules. Death or lethal injuries will occur due to electric shock.
- Never touch the positive or negative pole of PV connecting device. Touching both of them at the same time is prohibited as well.
- Do not ground the positive or negative pole of the PV modules.
- Only qualified personnel can perform the wiring of the PV panels.

\Lambda warning!

Risk of personnel injury or inverter damage

- During operation, do not touch any parts other than DC switch and LCD panel of the inverter.
- Never connect or disconnect the AC and DC connectors when the inverter is running.
- Turn off the AC and DC power and disconnect them from the inverter, wait for 5 minutes to fully discharge the voltage before attempting any maintenance, cleaning or working on any circuits connected.
- Make sure that the input DC voltage ≤ Maximum DC input voltage of the inverter. Overvoltage may cause permanent damage to the inverter, which is NOT covered by the warranty.

- Keep children away from the inverter.
- Pay attention to the weight of the inverter. Personal injuries may be caused if not handled properly.

NOTICE!

- If an external RCD is required by local regulations, check which type of RCD is required for relevant electric codes. It is recommended to use a Type-A RCD with the value of 300 mA.
- All the product labels and nameplate on the inverter shall be maintained clearly visible.
- The diagrams in this document are for reference only; the actual appearance of the received device shall prevail.

Packing List

| Inverter | Bracket | Communication connector |
|--|---|--|
| Positive PV connector & Positive PV pin contact | Negative PV connector & Negative PV pin contact | M10 × L40 Bolt combination kit T30 internal hex wrench M8 Bolt |
| | Dongle (Optional) | |
| Description | Quantity | Remark |
| | 1 pc | |
| Bracket | 1 pc | |
| Communication connector | 1 pc | |
| Positive PV connector Positive PV pin contact | 12 pairs for 40-50 kW 18 pairs for 60-110 kW 24 pairs for 120-150 kW | |
| Negative PV connector | 12 pairs for 40-50 kW | |
| Negative PV pin contact | 18 pairs for 60-110 kW 24 pairs for 120-150 kW | |
| M10 × L40 Bolt combination kit | 4 pcs | Used to fix the bracket |
| T30 internal hex wrench | 1 pc | Used to open the AC wiring box |
| M8 Bolt | 2 pcs | Used to fix the inverter |
| Documents | / | |
| Dongle (Optional) | 1 pc | |

* **Note**: Refer to the actual delivery for the optional accessories. Please purchase OT terminals separately.

Installation Site



NOTICE!

- For outdoor installation, precautions against direct sunlight, rain exposure and snow accumulation are recommended.
- Exposure to direct sunlight raises the temperature inside the device. This temperature rise poses no safety risks, but may impact the device performance.

Installation Carrier



| Inverter | 40 | 50 | 60 | 70 | 75 | 80 | 100 | 110 | 120 | 125 | 136 | 150 |
|-------------|----|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| Weight (kg) | 80 |).5 | | | 8 | 3 | | | | 8 | 7 | |

Installation Angle





Installation Space



Installation Tools



Additionally Required Materials

| No. | Require | d Matei | rial | Туре | | | | Co Sec | nducto tion | r Cross | - Cab Leng | le gth |
|---------------|-------------------------------------|---------|---------|--|---|----------|---------|-----------|----------------|--------------------|---------------|-----------|
| 1 | PV cable | | | Dedio comp stanc | Dedicated PV wire, copper, complying with 1,500 V standard | | | | 5 mm² | | ≤20 | 0 m |
| 2 | AC cable | e (40-1 | 25 kW) | Five- | core co | opper v | vire | 70 | mm²-2 | 40 mm | ² ≤20 | 0 m |
| 2 | AC cable | e (40-1 | 25 kW) | Five- | core al | uminiu | m wire | 95 | mm²-2 | 40 mm | ² ≤20 | 0 m |
| z | AC cable (136-150 kW) | | | Four | our-core copper wire | | | 70 | mm²-2 | 40 mm | ² ≤20 | 0 m |
| 5 | AC cable | e (136- | 150 kW) | Four | -core a | luminiı | um wire | e 95 | mm²-2 | 40 mm | ² ≤20 | 0 m |
| 4 | Communication cable | | | Network cable CAT5 or better | | | 0.5 | mm²-(|).75 mn | n² ≤20 | 0 m | |
| 4 | Communication | | | ENYC | ENY0512 nylon terminal for 0.5 mm ² / 22 AWG conductor | | | | | | | |
| | terminal | | | ENY7512 nylon terminal for 0.75 mm ² / 20 AWG conductor | | | | | | | | |
| 5 | Additional PE cable | | | Conv greer | vention n wire | al yello | w and | 35 | mm²-12 | 20 mm ⁱ | ² ≤20 | 0 m |
| 6 | M10 × L80 expansion bolt kit × 4 | | | For w | For wall-mounting | | | / | | | / | |
| | | | | | | | | | | | | |
| Inverte | r 40 | 50 | 60 | 70 | 75 | 80 | 100 | 110 | 120 | 125 | 136 | 150 |
| | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| AC breaker | _ 150 A | 200 A | 250 A | 250 A | 250 A | 150 A | 200 A | 200 A | 250 A | 250 A | 200 A | 250 A |

Terminals and Parts of Inverter



Mechanical Installation

• Stand-mounting



• Wall-mounting



PE Connection







AC Side Connection







NOTICE

- Before closing the AC junction box, plug the cut pagoda-shaped coil with fireproof mud.
- Prepare your own fireproof mud that meets local environmental standards.







Communication Connection



| Port | Pin | Definition | Remark |
|----------|-----|--------------|------------------------|
| | 1 | RS485A IN+ | |
| | 2 | RS485B IN | Inverter RS485 |
| DC /05 1 | 3 | Reserved | networking or |
| K2-402-T | 4 | RS485A OUT+ | connect the data |
| | 5 | RS485B OUT | collector |
| | 6 | Reserved | |
| | 7 | RS485A METER | |
| | 8 | RS485B METER | Connect the RS485 |
| RS-485-2 | 9 | Reserved | meter or other devices |
| | 10 | Reserved | |
| | 11 | DRM1/5 | |
| | 12 | DRM2/6 | |
| DDM | 13 | DRM3/7 | Reserved for |
| DRM | 14 | DRM4/8 | DRM/RRCR |
| | 15 | RG/0 | |
| | 16 | CL/0 | |
| DI | 21 | Digital IN+ | Input digital signal |
| | 22 | Digital IN- | input digital signal |
| DO | 29 | Digital OUT+ | Quitaut digital cisaal |
| DO | 39 | Digital OUT- | |



Monitoring Connection



Power on the System

- Check before power-on
 - 1) The device is installed correctly and securely;
 - 2) All the DC breakers and AC breakers are OFF;
 - 3) All AC cables are connected correctly and securely;
 - 4) All DC cables are connected correctly and securely;
 - 5) All communication cables are connected correctly and securely;
 - 6) All the connectors which are not used should be sealed by covers.
 - 7) Make sure the PV module output is well insulated to ground;

8) Make sure all PV modules should be of the same type, same model, same number, aligned and tilted identically;

9) Make sure the open circuit voltage of the PV string shall not exceed 800 V (for 40 kW-70 kW inverter) and 1100 V (for 75 kW- 150 kW inverter) at the coldest expected temperature in time.

• Power on the system



LCD Panel



- In normal state, the "Power", "TodayEnergy", "TotalEnergy" and "Status" information will be displayed. You can press the keys to switch information.
- In error state, the fault message and error code will be displayed, please refer to the corresponding solutions in the user manual.

| Кеу | Definition |
|-----------|--|
| ESC key | Exit from the current interface or cancel the setting |
| Up key | Move the cursor to the previous option or increase the value |
| Down key | Move the cursor to the next option or decrease the value |
| Enter key | Enter the selected option or confirm the selection |

LED Indicators



| LED | Status | Definition |
|--------------------------------------|--------|--|
| Communication | On | The inverter communication is normal. |
| Indicator (Blue) – | Flash | No communication data is sent or received for a long time. |
| | On | The inverter is in grid-connected state. |
| DC connection indicator (Green) | Flash | Alarm indicator on: Errors occur on the inverter DC side. Alarm indicator off: No errors occur on the inverter DC side and at least one channel of MPPT input voltage is higher than 200 V. |
| | Off | The input voltage of all channels of MPPT is less than 200 V; Or DC switch is not turned on. |
| | On | The inverter is in grid-connected state. |
| Grid connection indicator (Green) | Flash | Alarm indicator on: Errors occur on the inverter AC side. Alarm indicator off: AC grid is connected and the inverter is not in grid-connected state. |
| | Off | The inverter is not connected to the grid. |
| Alarm indicator | On | Errors occur on the inverter. |
| | Off | No errors occur on the inverter. |

* Note:

In aging mode, alarm indicator is flashing and other indicators keep the current state; In software upgrading state, all the indicators are blinking by horse-racing LED in circle; When the software upgrading fails, the alarm indicaotr turns on and other three indicators will be off;

After the inverter upgrade succeeded, all the indicators will be off.

General Settings → Settings

* Note: The initial password of user setting is $0 \ 0 \ 0 \ 0$ which should be changed for the consideration of account security.



* **Note**: The initial password of advanced setting is 2 0 1 4 which should be changed for the consideration of account security.

SolaXCloud Download



Technical Data

• DC input of 40 kW-70 kW inverter

| Model | X3-FTH-40K-LV | X3-FTH-50K-LV | X3-FTH-60K-LV | X3-FTH-70K-LV |
|--|---------------|---------------|---------------|---------------|
| Max. PV array input power [kWp] | 60 | 75 | 90 | 105 |
| Max. PV input voltage [d.c. V] | 800 | 800 | 800 | 800 |
| Full-load MPPT voltage range [d.c. V]* | 300-600 | 300-600 | 300-600 | 300-600 |
| Nominal input voltage [d.c. V] | 360 | 360 | 360 | 360 |
| Startup voltage [d.c. V] | 200 | 200 | 200 | 200 |
| MPP tracker voltage range [d.c. V] | 180-650 | 180-650 | 180-650 | 180-650 |
| No. of MPP trackers | 6 | 6 | 9 | 9 |
| Strings per MPP tracker | 2 | 2 | 2 | 2 |
| Max. PV input current per MPPT [d.c. A] | 32 | 32 | 32 | 32 |
| Max. short circuit current per MPPT [d.c. A] | 46 | 46 | 46 | 46 |
| Max. inverter backfeed current to the array (d.c. A) | 0 | 0 | 0 | 0 |

* **Note**: The maximum input voltage is the highest voltage the inverter's DC input can safely handle. Exceeding this voltage may damage the inverter.

• AC output of 40 kW-70 kW inverter

| Model | X3-FTH-40K-LV | X3-FTH-50K-LV | X3-FTH-60K-LV | X3-FTH-70K-LV | | | | |
|---|---------------|--------------------|---------------|---------------|--|--|--|--|
| Nominal AC output power [kW] | 40 | 50 | 60 | 70 | | | | |
| Nominal AC output current [a.c. A] | 105 | 131.3 | 157.5 | 183.7 | | | | |
| Max. AC output apparent power [kVA] | 44 | 55 | 66 | 70 | | | | |
| Max. AC output current [a.c. A] | 115.5 | 144.5 | 173.5 | 183.7 | | | | |
| Current (inrush) [a.c. A] | 115.5 | 144.5 | 173.5 | 183.7 | | | | |
| Nominal AC voltage [a.c. V] | | 127/220, 3W/(N)/PE | | | | | | |
| Nominal AC frequency/AC frequency range [Hz]** | | 50/60; ±5 | | | | | | |
| Displacement power factor | | 0.8 leading | - 0.8 lagging | | | | | |
| THDi (Rated power) [%] | | <3 | 3% | | | | | |
| Max. output fault current [a.c. A] | | 370 | | | | | | |
| Max. output overcurrent protection [a.c. A] | | 37 | 70 | | | | | |

• System data of 40 kW-70 kW inverter

| Model | X3-FTH-40K-LV | X3-FTH-50K-LV | X3-FTH-60K-LV | X3-FTH-70K-LV | | | | | |
|--|--|---------------|---------------|---------------|--|--|--|--|--|
| Max. efficiency [%] | | 98.0 | | | | | | | |
| Protection level | | IP66 | | | | | | | |
| Operating temperature range [°C] | | -25 to +60 | | | | | | | |
| Max. operation altitude [m] | 4000 | | | | | | | | |
| Relative humidity [%] | | 0-1 | .00 | | | | | | |
| Dimensions (W × H × D) [mm] | 985 × 660 × 327.5 | | | | | | | | |
| Weight [kg] | 80 | 0.5 | | 83 | | | | | |
| Cooling concept | Smart fan cooling | | | | | | | | |
| Communication interfaces | RS485 / (Optional: Pocket Wifi/LAN/4G) / USB | | | | | | | | |
| Overvoltage Category | III(MAINS), II(DC) | | | | | | | | |

• Protection of 40 kW-70 kW inverter

| Model | X3-FTH-40K-LV | X3-FTH-50K-LV | X3-FTH-60K-LV | X3-FTH-70K-LV | | | | |
|-------------------------------|-----------------|-----------------|---------------|---------------|--|--|--|--|
| DC Switch | | Y | es | | | | | |
| Over/under voltage protection | | Yes | | | | | | |
| DC isolation protection | | Yes | | | | | | |
| Grid monitoring | Yes | | | | | | | |
| DC injection monitoring | Yes | | | | | | | |
| Residual current detection | Yes | | | | | | | |
| Active anti-islanding method | | Frequency shift | | | | | | |
| Pollution degree | PD 3 | | | | | | | |
| String fault detection | Yes | | | | | | | |
| SPD (DC/AC) | Type II/Type II | | | | | | | |
| | | | | | | | | |

• Standard of 40 kW-70 kW inverter

| Model | X3-FTH-40K-LV | X3-FTH-50K-LV | X3-FTH-60K-LV | X3-FTH-70K-LV | | | | | |
|-----------------|--|---------------|---------------|---------------|--|--|--|--|--|
| Safety Standard | IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004 | | | | | | | | |
| EMC | IEC/EN 61000; NB/T 32004 | | | | | | | | |
| Certification | NB/T 32004; IEC 61727; IEC 62116; VDE4110; VDE4105; EN50549; NRS097; G99; RD1699; PPDS CEI0-21; CEI0-16; VFR 2019; IEC 61683; IEC 60068; EN 50530; AS4777.2 | | | | | | | | |

• DC input of 75 kW-150 kW inverter

| Model | X3-FTH- 75K(L) X3-FTH- 75K | X3-FTH- 80K(L) X3-FTH- 80K | X3-FTH- 100K(L) X3-FTH- 100K | X3-FTH- 110K(L) X3-FTH- 110K | X3-FTH- 120K(L) X3-FTH- 120K | X3-FTH- 125K(L) X3-FTH- 125K | X3-FTH- 136K- MV(L) X3-FTH- 136K-MV | X3-FTH- 150K- MV(L) X3-FTH- 150K-MV |
|--|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|
| Max. PV array input power [kWp] | 120 | 120 | 150 | 165 | 180 | 188 | 204 | 225 |
| Max. PV input voltage [d.c. V] | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
| Full-load MPPT voltage range [d.c. V]* | 500-800 | 500-800 | 500-800 | 500-800 | 500-800 | 500-800 | 567-800 | 625-800 |
| Nominal input voltage [d.c. V]** | 580/600 | 580/600 | 580/600 | 580/600 | 580/600 | 580/600 | 730/785 | 730/785 |
| Startup voltage [d.c. V] | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| MPP tracker voltage range [d.c. V] | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 |
| No. of MPP trackers | 9 | 9 | 9* | 9* | 12 | 12 | 12 | 12 |
| Strings per MPP tracker | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Max. PV input current per MPPT [d.c. A] | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| Isc PV Array Short Circuit current per MPPT [d.c. A] | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| Max. inverter backfeed current to the array [d.c. A] | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

* **Note**: The maximum input voltage is the highest voltage the inverter's DC input can safely handle. Exceeding this voltage may damage the inverter. ** **Note**: Optional 12Mppts version.

• AC output of 75 kW-150 kW inverter

| Model | X3-FTH- 75K(L) X3-FTH- 75K | X3-FTH- 80K(L) X3-FTH- 80K | X3-FTH- 100K(L) X3-FTH- 100K | X3-FTH- 110K(L) X3-FTH- 110K | X3-FTH- 120K(L) X3-FTH- 120K | X3-FTH- 125K(L) X3-FTH- 125K | X3-FTH- 136K- MV(L) X3-FTH- 136K-MV | X3-FTH- 150K- MV(L) X3-FTH- 150K-MV |
|---|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|
| Rated AC output power [kW] | 75 | 80 | 100 | 110 | 120 | 125 | 136 | 150 |
| Rated AC output current [a.c. A]* | 113.7 /108.7 | 121.3 /116 | 151.6 /145 | 166.7 /159.5 | 181.9 /174 | 189.4 /181.2 | 157.1 /145.4 | 173.2 /160.4 |
| Max. AC output apparent power [kVA] | 75 | 88 | 110 | 121 | 132 | 132 | 149.6 | 165 |
| Max. AC output current [a.c. A]* | 113.7 /108.7 | 133.4 /127.6 | 166.7 /159.5 | 183.4 /175.4 | 200 /191.3 | 200 /191.3 | 172.8 /160 | 190.6 /176.5 |
| Current (inrush) [A]* | 113.7 /108.7 | 133.4 /127.6 | 166.7 /159.5 | 183.4 /175.4 | 200 /191.3 | 200 /191.3 | 172.8 /160 | 190.6 /176.5 |
| Nominal AC voltage [a.c. V] | | 22 | 0/380, 230/- | 400, 3W/(N)/ | /PE | | 500/540 |), 3W/PE |
| AC voltage range [a.c. V]** | | | 304 | - 480 | | | 425 - | - 594 |
| Nominal AC frequency/AC frequency range [Hz]** | 50/60; ±5 | | | | | | | |
| THDi (Rated power) [%] | | | | < | :3 | | | |
| Power Factor range | | | | 0.8 leading | - 0.8 lagging | | | |

| Model | X3-FTH- 75K(L) X3-FTH- 75K | X3-FTH- 80K(L) X3-FTH- 80K | X3-FTH- 100K(L) X3-FTH- 100K | X3-FTH- 110K(L) X3-FTH- 110K | X3-FTH- 120K(L) X3-FTH- 120K | X3-FTH- 125K(L) X3-FTH- 125K | X3-FTH- 136K- MV(L) X3-FTH- 136K-MV | X3-FTH- 150K- MV(L) X3-FTH- 150K-MV |
|---|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|
| Max. output fault current [a.c. A] | 370 | | | | | | | |
| Max. output overcurrent protection [a.c. A] | | | | 37 | 70 | | | |

• System data of 75 kW-150 kW inverter

| Model | X3-FTH- 75K(L) X3-FTH- 75K | X3-FTH- 80K(L) X3-FTH- 80K | X3-FTH- 100K(L) X3-FTH- 100K | X3-FTH- 110K(L) X3-FTH- 110K | X3-FTH- 120K(L) X3-FTH- 120K | X3-FTH- 125K(L) X3-FTH- 125K | X3-FTH- 136K- MV(L) X3-FTH- 136K-MV | X3-FTH- 150K- MV(L) X3-FTH- 150K-MV | | |
|--|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|--|--|
| Max. efficiency [%] | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 98.6 | 99.0 | 99.0 | | |
| European weighted efficiency [%] | | 98.3 98.5 | | | | | | | | |
| Ingress protection | | | | IP | 66 | | | | | |
| Operating ambient temperature range [°C] | | -25 to +60 | | | | | | | | |
| Max. operation altitude [m] | | 4000 | | | | | | | | |
| Relative humidity [%] | | 0-100 | | | | | | | | |
| Dimensions (W × H × D) [mm] | | 985 × 660 × 327.5 | | | | | | | | |
| Weight [kg] | | 83 87 | | | | | | | | |
| Cooling concept | | | | Smart fa | n cooling | | | | | |
| Communication interfaces | | | | RS485 / L | JSB / DRM | | | | | |
| Optional monitoring dongle | | Pocket WiFi/LAN/4G | | | | | | | | |
| Display | | LCD(16x2, optional)/LEDx4 | | | | | | | | |
| Overvoltage Category | | | | III(MAIN | s), II(DC) | | | | | |

• Protection of 75 kW-150 kW inverter

| Model | X3-FTH- 75K(L) X3-FTH- 75K | X3-FTH- 80K(L) X3-FTH- 80K | X3-FTH- 100K(L) X3-FTH- 100K | X3-FTH- 110K(L) X3-FTH- 110K | X3-FTH- 120K(L) X3-FTH- 120K | X3-FTH- 125K(L) X3-FTH- 125K | X3-FTH- 136K- MV(L) X3-FTH- 136K-MV | X3-FTH- 150K- MV(L) X3-FTH- 150K-MV |
|---------------------------------|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|
| Over/under voltage protection | Yes | | | | | | | |
| DC isolation protection | | Yes | | | | | | |
| Grid monitoring | Yes | | | | | | | |
| DC injection monitoring | | Yes | | | | | | |
| Residual current detection | | Yes | | | | | | |
| Active anti-islanding method | Frequency shift | | | | | | | |
| Pollution degree | | PD 3 | | | | | | |
| String fault detection | Yes | | | | | | | |

| Model | X3-FTH- 75K(L) X3-FTH- 75K | X3-FTH- 80K(L) X3-FTH- 80K | X3-FTH- 100K(L) X3-FTH- 100K | X3-FTH- 110K(L) X3-FTH- 110K | X3-FTH- 120K(L) X3-FTH- 120K | X3-FTH- 125K(L) X3-FTH- 125K | X3-FTH- 136K- MV(L) X3-FTH- 136K-MV | X3-FTH- 150K- MV(L) X3-FTH- 150K-MV |
|---|-------------------------------------|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|
| SPD (DC/AC) | Туре II/Туре II | | | | | | | |
| Arc-fault circuit interrupter(AFCI) | Optional | | | | | | | |
| AC terminals over temperature detection | | Yes | | | | | | |
| AC auxiliary power supply(APS) | | | | Y | es | | | |

• Standard of 75 kW-150 kW inverter

| Model | X3-FTH- 75K(L) X3-FTH- 75K | X3-FTH- 80K(L) X3-FTH- 80K | X3-FTH- 100K(L) X3-FTH- 100K | X3-FTH- 110K(L) X3-FTH- 110K | X3-FTH- 120K(L) X3-FTH- 120K | X3-FTH- 125K(L) X3-FTH- 125K | X3-FTH- 136K- MV(L) X3-FTH- 136K-MV | X3-FTH- 150K- MV(L) X3-FTH- 150K-MV | |
|---------------|--|-------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|---|--|
| Safety | IEC/EN 62109-1; IEC/EN 62109-2; NB/T 32004 | | | | | | | | |
| EMC | IEC/EN 61000; NB/T 32004 | | | | | | | | |
| Certification | NB/T 32004; IEC 61727; IEC 62116; VDE4110; VDE4105; EN50549; NRS097; G99; RD1699; PDDS; CEI0-21; CEI0-16; VFR 2019; IEC 61683; IEC 60068; EN 50530; AS4777.2 | | | | | | | | |

* Note: The two data refer to different grid voltage 220V/230V or 500V/540V.

** Note: The AC voltage and the frequency range may vary from different country codes.

Warranty Registration

Please visit the website: <u>https://www.solaxcloud.com/user-center/</u> to complete the warranty registration. For more detailed warranty terms, please visit SolaX official website: www.solaxpower.com.



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