



ADITYA+ GT-1~5K

Quick Installation Guide

- Only qualified electricians are allowed to install the inverter.
- Do not store and install the inverter close to combustible materials.
- Install the inverter away from electronic devices with strong electromagnetic interference.
- Keep the installation site away from places frequently visited by children and other public.



- Remove the metal jewelry such as ring and bracelet before you perform installation and electrical connection, in order to avoid electric shock.
- The input voltage to the inverter should not exceed 600V; otherwise, the inverter may be damaged.
- The inverter is not compatible with the positive or negative grounding system of solar cell module.
- Make sure the PE of the inverter is reliably grounded.
- Ensure reliable installation and electrical connection.

Spacing and Position of Installation

(1) Install the inverter at such a height that allows the operator to observe the LED indicator lights of the inverter easily.



(2) Leave adequate space around the inverter to facilitate air circulation, and future handling of the inverter.



(3) To install more than one inverter, please keep a certain distance between the inverters and at the top/bottom of the inverters (see the figure below), so as to facilitate heat radiation.



(4) The mounting surface should be upright (see the figure below). Install the inverter vertically or at a backward tilt of $\leq 15^{\circ}$ so as to facilitate heat radiation. Forward tilt, horizontal installation, upside-down installation, backward tilt of $>15^{\circ}$ and sideways tilt are not allowed.



Installation of Inverter

(1) Using a marker and a level ruler, mark two points 250mm apart where you need to drill the holes.



(2) Drill two holes, and fit two $M6 \times 50$ stainless-steel expansion bolts into the holes. Tighten the nut to fix the tail of the bolt using a wrench, and then remove the nut, spring washer and flat washer.





(3) Take the inverter out of the carton. If the installation position is high, lift the inverter carefully to the installation position while ensuring the safety.



(4) Fit the fixing holes of the radiator of the inverter to two M6×50 stainless-steel expansion bolts, and then install the flat washer, spring washer and nut and tighten them with a torque of 2.5N•m.



B Electrical Connection

3.1 Connection of Protective Grounding Wire

Crimp the grounding wire to the OT terminal. Use a M4×10 stainless-steel screw to fix the grounding wire at a tightening torque of 1.2N•m.



3.2 AC wiring

(1) Disassemble the AC quick connector using a tool, connect the wire L, N and PE of the single-phase public power grid to the corresponding holes reliably based on the marks (make sure that the conductors are not exposed), and finally tighten the waterproof cap.



(2) Connect the AC quick connector to the inverter.



3.3 PV Panel Wiring

 Connect the output wire of the PV panel to the supplied MC4 terminal.
Check the polarity of the connection wires of the PV string, and make sure the voltage of each PV string falls within the allowable range of the inverter, and then connect the PV string to the inverter.



3.4 Communication Connection

(1) 485 pins definition

1 (red)	+5VDC
2 (orange)	A (RS485+)
3 (white)	B (RS485-)
4 (black)	GND

4 Inspection before operation

(1) Close the circuit breaker of the inverter at the public power grid side;

- (2) Close the integrated DC switch of the inverter;
- (3) Close the PV string switch at the DC input side;
- (4) Observe the LED status or the information on the inverter LCD screen;
- (5) Wait for the successful grid connection of the inverter.

Maintenance

When power-off maintenance, overhaul, troubleshooting of the inverter is

required, please stop the inverter strictly as follows:

(1) Disconnect the inverter's AC switch for the public power grid;

(2) Disconnect the DC switch integrated on the inverter;

(3) Contact our customer service staff or local distributors.

More information

For complete instruction of relevant parameters,

- please refer to Operation Manual of Exide
- AdityaGT+ Series PV Grid-tied Inverters.

You can visit www.exide in du stries.comor scan

the QR code to download it.

Service line: 1800 2035758







ADITYA+ GT3-5~15K Quick Installation Guide

OInstallation distance and location

(1) The installation position height shall ensure that the line of sight is on the same horizontal plane as the LED display lamp, this is easy for people to inspect the inverter status.





(3) When installing multiple inverters, it is necessary to reserve a certain space between the inverters, the left and right space is as follows, and at the same time, the upper and lower parts of the inverter need to leave a sufficient distance in order to ensure that it dissipates heat well.



(4) The mounting surface should be perpendicular to the horizontal line as shown in the figure below. Please install the inverter vertically or tilted back ≤15° to facilitate the heat dissipation of the machine. Do not tilt the inverter forward, horizontally, upside down, lean back too much, or install it sideways.



OINverter installation

(1) Place the hanging plate at the wall installation point, adjust the angle with a horizontal ruler, and mark with a marker pen





(2) Punch holes with a impact drill and install expansion bolts. The user needs to prepare the expansion bolt by himself, and it is recommended to use M8 × 60 stainless steel explosion expansion bolt.



(3) Fixed hanging plate. Clean the hole, impact the expansion bolt into the hole with a rubber hammer, use a wrench to tighten the nut to fix the tail of the bolt, then remove the nut, spring pad and flat pad, and then lock the wall hanging plate fixation to the wall surface, with the tightening torque of 13N • m.



(4)Take out the inverter from the packaging box. If the installation position is high, transport the inverter to the destination while ensuring safety.

(2) There is enough reserved space around the installation site to facilitate the disassembly and assembly of the inverter and air convection.



(5)After lifting the inverter, fasten the back bracket plate of the inverter into the wall hanging plate, and ensure that the inverter bracket plate is well matched with the hanging plate groove.



(6)After the inverter is stably hung on the wall mount, fix the bottom screws.



BElectrical connection

3.1 Connect the protection ground wire

Crimp OT terminal to ground. Remove the screw in the ground position on the side of the chassis, fasten the ground wire by the screw, and the tighten torque is $7-9N \cdot m$.



3.2 Grid terminal connection

(1) Connect the four wires L1, L2, L3, and N of the three-phase public power grid to the AC terminal, connect the ground wire to the grounding point outside the chassis, and ensure that the conductors of the wires are not exposed and crimped firmly.



(2) Tighten L1, L2, L3, and N of the crimped terminals with a torque of 7-9N•m, and the grounding torque of PE on the outside of the chassis is 7-9N•m; then tighten the AC waterproof cap.



3.3 PV Wiring

 Connect the outgoing cable of the PV panel to the MC4 terminal delivered with the inverter

(2) Check the polarity of the PV strings, and then connect it to the inverter.

3.4 Communication connection

(1) 485 pin definition

1 (red)	+ 5VDC
2 (Orange)	A (RS 485 +)
3 (brown)	B (RS 485-)
4 (Black)	GND

(2) Communication options

Communication Option	Inverter interface	Upper computer interface
Ethernet Converter	RS 485-1	RJ45 Plug
WiFi Converter	RS 485-1	Wireless WiFi Signal
GPRS Converter	RS 485-1	Wireless GPRS Signal
ENET Converter	RS 485-1	Network port

OCheck before operation

(1) Turn on the AC side circuit breaker of the grid;

(2) Turn on the DC switch of the inverter;

(3) Turn on the switch on the DC input side of the PV string;

(4) Observe the status of the inverter's LED lights or the information displayed on the LCD screen

(5) Wait for the inverter to connect to the grid successfully.

Regular maintenance

When power failure maintenance, overhaul, troubleshooting of the inverter is required, please stop the inverter strictly as follows:

(1) Switch off the breakers at the AC side;

(2) Switch off the integrated DC switch;

(3) Contact with customer service staff or local dealers.

More information

For complete instruction of relevant parameters

please refer to Operation Manual of Exide

AdityaGT+ Series PV Grid-tied Inverters.

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the QR code to download it.

Service line: 1800 2035758







ADITYA+ GT3-17~25K PV Grid-tied Inverter

Quick Installation Guide

- Only qualified electricians are allowed to install the inverter.
- Do not put and install the inverter on or close to combustible materials.
- Install the inverter away from electronic devices with strong electromagnetic interference.
- Keep the installation site away from children and other public places.
- Remove the metal jewelry such as ring and bracelet before installation and electrical connection to avoid electric shock.



- The input voltage of the PV panel not allowed to exceed the maximum input voltage of the inverter; otherwise inverter damage may occur.
- The positive and negative pole of solar modules can not be grounded, otherwise irrecoverable damage may occur.
- Ensure the proper grounding of the inverter, otherwise, improper connection or no grounding may cause stop of the inverter.
- Ensure reliable installation and electrical connection.
- PV grid-tied inverter have LCD and LED versions, the installation methods of the two versions are the same.

OUnpacking inspection

Inspect the information of the order and the name plate to ensure the product are the ordered one and no damage to the package. If any problem, contact the supplier as soon as possible.

No.	Name	Qty
1	Inverter	1
2	Installation bracket	1
3	AC output waterproof cover	1
4	485 comm. cable	1
5	DC connector (pair)	4/5
6	Quick installation guide	1
7	Expansion bolts M8*60	4
8	M8 combination screw	4
9	M4 combination screw	1
10	AC connector	5

Remarks: 17-22kw (4 pairs), 25kw (5 pairs)

ØBefore installation

2.1 Installation place

Select installation place based on the following considerations:



Figure 1 Installation space(mm)

(1) The environment temperature is between $-25^{\circ}C \sim 60^{\circ}C$.

(2) The installation surface should be perpendicular to the horizontal line. Refer to Figure 2.



Figure 2 Installation position

2.2 Cable specifications

In order to standardize and be compatible with the specifications of AC / DC connectors or terminals of inverters, the following requirements are made for AC / DC cables connecting corresponding models of inverters: Table 2 Cable specifications

	DC side	AC side
Model	Recommended min. Cross-section mm² (length	Recommended min. cross-section mm² (length ≤ 50m)
ADITYA+	4-6	8-18
GT3-17~22K		
ADITYA+ GT3-25K	4-6	12-25

Remarks: DC cable: meet the standard 1100V PV cable; AC cable: outdoor 4 / 5 core copper wire / aluminum core wire;

Mechanical installation

Take the typical installation environment as the example, the manual describes how to install the inverter on concrete wall.



Figure 3 Installation bracket of inverter

The installation steps of inverter are as follows:

(1) Firstly, mark at the appropriate position according to the installation size, and then punch holes. It is recommended to use M8 × 60 stainless steel to press the expansion bolt;



Figure 4 Expansion bolts fixing

(2) The wall hanging plate is driven into the hole with rubber hammer through expansion bolts and locked tightly with the wall, Tightening torque 13N • m;



Figure 5 Inverter fixing

Electrical installation



Figure 6 Electrical wiring of the inverter

4.1 AC wiring

The steps of electrical connection of inverter are as follows: (1) The five conductors L1, L2, L3, N (optional) and PE of three-phase public power grid are connected to the AC connector interface, and ensure that the conductor is not exposed and crimped firmly;



(2) Fix the five cables L1, L2, L3, N and PE with pressed terminals on the corresponding terminals of the AC connecting circuit board. The tightening torque of L1, L2, L3 and N is 7-9N \cdot m, and the tightening torque of PE grounding is 7-9N \cdot m; Then fix the AC waterproof cover with the box;



(3) After the AC waterproof cover is close to the terminal base, clamp the fastened waterproof cover down through the clips on the left and right sides of the terminal base.



4.2 DC wiring

(1) Check whether the polarity of the connecting cable of the PV string is correct, and ensure that the voltage of each string is within the allowable range of the inverter;



(2) Insert the positive and negative connectors into the input terminal at the bottom of the inverter and clamp them tightly.



GOperation

5.1 Inspection before operation

Check as follows before operation:

(1) Check whether the voltage of the PV strings' is in the allowable input

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voltage range of the inverter or not;

- (2) Check whether the voltage of the AC side is normal or not;
- (3) Check whether the inverter is grounding connected or not;
- (4) Ensure all switches are "off";

(5) Ensure all electrical safety precautions are clearly-identified on the installation site.

(6) Confirm the handheld keypad or communication module is in correct connection.

5.2 Accessories and wiring



485 pins definition

1 (red)	+5VDC
2 (orange)	A (RS485+)
3 (brown)	B (RS485-)
4 (black)	GND

Comm. optional accessories

Comm. optional accessories	Inverter port	CPU port
Ethernet converter	RS485-M	RS485 signal
WiFi converter	RS485-M	Wireless WiFi signal
GPRS converter	RS485-M	Wireless GPRS signal

5.3 Regular maintenance

When power failure maintenance, overhaul, troubleshooting of the

inverter is required, please stop the inverter strictly as follows:

(1) Switch off the breakers at the AC side;

(2) Switch off the integrated DC switch;

(3) Contact with customer service staff or local dealers.

More information

For complete instruction of relevant parameters, please refer to Operation Manual of Exide Aditya GT+ Series PV Grid-tied Inverters. You can visit www.exide in du stries.comor scan the QR code to download it. Service line: 1800 2035758







ADITYA+ GT3-30~33K PV Grid-tied Inverter Quick Installation Guide

- Only qualified electricians are allowed to install the inverter.
- Do not put and install the inverter on or close to combustible materials.
- Install the inverter away from electronic devices with strong electromagnetic interference.
- Keep the installation site away from children and other public places.
- Remove the metal jewelry such as ring and bracelet before installation and electrical connection to avoid electric shock.



- The input voltage of the PV panel not allowed to exceed the maximum input voltage of the inverter; otherwise inverter damage may occur.
- The positive and negative pole of solar modules can not be grounded, otherwise irrecoverable damage may occur.
- Ensure the proper grounding of the inverter, otherwise, improper connection or no grounding may cause stop of the inverter.
- Ensure reliable installation and electrical connection.
- PV grid-tied inverter have LCD and LED versions, the installation methods of the two versions are the same.

OUnpacking inspection

Inspect the information of the order and the name plate to ensure the product are the ordered one and no damage to the package. If any problem, contact the supplier as soon as possible.

No.	Name	Qty
1	Inverter	1
2	Installation bracket	1
3	AC output waterproof cover	1
4	485 comm. cable	1
5	DC connector (pair)	6
6	Quick installation guide	1
7	Expansion bolts M8*60	5
8	M8 combination screw	5
9	M4 combination screw	1
10	AC connector	5

Remarks: 30-33kw (6 pairs)

ØBefore installation

2.1 Installation place

Select installation place based on the following considerations:



Figure 1 Installation space(mm)

(1) The environment temperature is between -25 $^{\circ}$ C ~60 $^{\circ}$ C.

(2) The installation surface should be perpendicular to the horizontal line. Refer to Figure 2.

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Figure 2 Installation position

2.2 Cable specifications

In order to standardize and be compatible with the specifications of AC / DC connectors or terminals of inverters, the following requirements are made for AC / DC cables connecting corresponding models of inverters: Table 2 Cable specifications

	DC side	AC side	
Model	Recommended min. Cross-section mm² (length ≤ 50m)	Recommended min. cross-section mm² (length ≤ 50m)	
ADITYA+ GT3-30~33K	4-6	16-35	

Remarks: DC cable: meet the standard 1100V PV cable; AC cable: outdoor 4 / 5 core copper wire / aluminum core wire;

Mechanical installation

Take the typical installation environment as the example, the manual describes how to install the inverter on concrete wall.



Figure 3 Installation bracket of inverter

The installation steps of inverter are as follows:

(1) Firstly, mark at the appropriate position according to the installation size, and then punch holes. It is recommended to use M8 × 60 stainless steel to press the expansion bolt;



Figure 4 Expansion bolts fixing (2) The wall hanging plate is driven into the hole with rubber hammer

through expansion bolts and locked tightly with the wall, Tightening torque 13N • m;



Figure 5 Inverter fixing

Delectrical installation



Figure 6 Electrical wiring of the inverter

4.1 AC wiring

The steps of electrical connection of inverter are as follows: (1) The five conductors L1, L2, L3, N (optional) and PE of three-phase public power grid are connected to the AC connector interface, and ensure that the conductor is not exposed and crimped firmly;



(2) Fix the five cables L1, L2, L3, N and PE with pressed terminals on the corresponding terminals of the AC connecting circuit board. The tightening torque of L1, L2, L3 and N is 7-9N \cdot m, and the tightening torque of PE grounding is 7-9N \cdot m; Then fix the AC waterproof cover with the box;



(3) After the AC waterproof cover is close to the terminal base, clamp the fastened waterproof cover down through the clips on the left and right sides of the terminal base.



4.2 DC wiring

(1) Check whether the polarity of the connecting cable of the PV string is correct, and ensure that the voltage of each string is within the allowable range of the inverter;



(2) Insert the positive and negative connectors into the input terminal at the bottom of the inverter and clamp them tightly.



GOperation

5.1 Inspection before operation

Check as follows before operation:

(1) Check whether the voltage of the PV strings' is in the allowable input

voltage range of the inverter or not;

- (2) Check whether the voltage of the AC side is normal or not;
- (3) Check whether the inverter is grounding connected or not;
- (4) Ensure all switches are "off";

(5) Ensure all electrical safety precautions are clearly-identified on the installation site.

(6) Confirm the handheld keypad or communication module is in correct connection.

5.2 Accessories and wiring



485 pins definition

1 (red)	+5VDC
2 (orange)	A (RS485+)
3 (brown)	B (RS485-)
4 (black)	GND

Comm. optional accessories

Comm. optional accessories	Inverter port	CPU port
Ethernet converter	RS485-M	RS485 signal
WiFi converter	RS485-M	Wireless WiFi signal
GPRS converter	RS485-M	Wireless GPRS signal

5.3 Regular maintenance

When power failure maintenance, overhaul, troubleshooting of the

inverter is required, please stop the inverter strictly as follows:

(1) Switch off the breakers at the AC side;

(2) Switch off the integrated DC switch;

(3) Contact with customer service staff or local dealers.

More information

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For complete instruction of relevant parameters, please refer to Operation Manual of Exide Aditya GT+ Series PV Grid-tied Inverters. You can visit www.exide in du stries.comor scan the QR code to download it. Service line: 1800 2035758







ADITYA+ GT3-50~70K PV Grid-tied Inverter

Quick Installation Guide

- Only qualified electricians are allowed to install the inverter.
- Do not put and install the inverter on or close to combustible materials.
- Install the inverter away from electronic devices with strong electromagnetic interference.
- Keep the installation site away from children and other public places.
- Remove the metal jewelry such as ring and bracelet before installation and electrical connection to avoid electric shock.



- The input voltage of the PV panel not allowed to exceed the maximum input voltage of the inverter; otherwise inverter damage may occur.
- The positive and negative pole of solar modules can't be grounded, otherwise irrecoverable damage may occur.
- Ensure the proper grounding of the inverter, otherwise, improper connection or no grounding may cause stop of the inverter.
- Ensure reliable installation and electrical connection.
- PV grid-tied inverter have LCD and LED versions, the installation methods of the two versions are the same.

Installation distance and location

(1) The height of the installation position should ensure that the line of sight and the LED indicator light are on the same level, this makes it easy to check the inverter status.



(2) There is enough reserved space around the installation site to facilitate the disassembly and assembly of the inverter and air convection.



(3) When installing multiple inverters, it is necessary to reserve a certain distance between the inverters. The left and right distances are as shown in the figure below. At the same time, sufficient distance shall be reserved between the upper and lower parts of the inverter to ensure good heat dissipation.



(4) As shown in the figure below, the mounting surface shall be perpendicular to the horizontal line. Please install the inverter vertically or backward $\leq 15^{\circ}$ to facilitate the heat dissipation. Do not tilt the inverter forward, horizontally, upside down, too much tilt back and roll.



2

(5) In order to standardize and be compatible with the specifications of AC / DC connectors or terminals of inverters, the following requirements are made for AC / DC cables connecting corresponding models of inverters: Table 1 Cable specifications

	DC side	AC side
Model	Recommended min. Cross-section mm² (length	Recommended min. cross-section mm² (length
ADITYA+ GT3-50~70K	5-6	30-35

Remarks: DC cable: meet the standard 1100V PV cable;

AC cable: outdoor 4 / 5 core copper wire / aluminum core wire;

2Inverter installation

(1) First, place the hanging board at the wall mounting point, adjust the angle with a level ruler and mark it with a marker pen.



(2) Then,use a hammer drill to drill holes and install expansion bolts. Users need to prepare expansion bolts by themselves. It is recommended to use M8×60 stainless steel expansion bolts.



(3) Fix the hanging board. Clean the hole, use a hammer to drive the expansion bolt into the hole, and then use a wrench to tighten the nut. After fixing the end of the bolt, remove the nut, spring washer and flat washer, and then fix the bracket and tighten the torque 13N•m.



(4) Take the inverter out of the packaging box. If the installation position is high, you need to lift the inverter to the hanging board, and then use the lifting equipment to lift the inverter 100mm off the ground and pause, check the tightness of the hoisting ring and rope. After confirming that the

connection is secure, lift the inverter to the destination.



(5) After lifting the inverter, buckle the bracket on the back of the machine into the wall hanging board, confirm that the machine bracket and the hanging board groove are well matched



(6) Use an M4×12 screw to fix the left hole of the chassis and the wall mount, and the tightening torque is 2.5N•m.



8 Electrical connections

3.1 Connect the protective ground wire

Crimp the OT terminal to the ground wire. Remove the screw at the grounding position on the side of the chassis, and then fix and lock the ground wire with the screw. The tightening torque is 7-9N•m.



3.2 Grid access

(1) Connect the five wires of the grid L1, L2, L3, N, PE to the AC connector interface, connect the grounding wire to the grounding point on the outside of the chassis, and ensure that the wire conductors are not exposed and crimped firmly.



(2) Tighten the L1, L2, L3, N, PE on the terminal, the tightening torque is 7-9N•m, then tighten the AC waterproof cap.



3.3 Wiring of PV

(1) Connect the outgoing line of the photovoltaic panel to the MC4 terminal.



(2) Check the polarity of the connecting cable of the PV string, and then connect it to the inverter.

(3) After the DC connector is connected, you need to use a multimeter or megohymmeter to measure the insulation of the positive and negative terminals of each string to the ground, and the insulation is normal before you can access the inverter.

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3.4 Communication connection



485 Definition of Pin

1 (Red)	+5VDC	
2 (Orange)	A (RS485+)	
3 (Brown)	B (RS485-)	
4 (Brack)	GND	

Communication accessories

Communication accessories	Inverter port	Port of upper PC
Ethernet converter	RS485-M	RJ45 pin
WiFi converter	RS485-M	WiFi signal
GPRS converter	RS485-M	GPRS signal
ENET converter	RS485-M	Ethernet por

4 Check before operation

(1) Turn on the AC side circuit breaker of the grid;

- (2) Turn on the DC switch integrated in the inverter;
- (3) Turn on the switch on the DC input side of the PV string;
- (4) Observe the status of the inverter's LED lights or the information displayed on the LCD screen
- (5) Wait for the inverter to connect to the grid successfully.

More information

For complete instruction of relevant parameters,

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