

TITAN DC-01

Desk Charger Power Bank

102.000mAh ~ 320Wh

User Manual v1.1

Please Read This Manual Before Use And Follow Its Guidance. Keep This Manual For Future Reference.



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1. Safety Instructions

Symbol Conventions

This manual uses the following symbols to highlight important information:

Symbol	Category	Description
	Danger / Warning/ Attention	It indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Notice	Indicates a potentially hazardous situation which, if not avoided, may result in significant damage to property or the surrounding environment.

Please read this manual carefully to understand the correct operation of the product and the associated safety precautions. The safety guidelines provided here are examples and may not cover every possible situation. Actual use of the product must comply with all applicable safety regulations and standards. If you have any questions or require assistance, please contact **AliBayTech** support or your local **AliBayTech** distributor.

Statement

To ensure safe and reliable operation, please follow the conditions listed below:

- Always operate and store the product in accordance with the conditions specified in this manual.
- Installation and environmental conditions must comply with the applicable international, national, or regional standards.
- Do not perform unauthorized disassembly, component replacement, or modification of the product's hardware or software.

AliBayTech shall not be held responsible under the following circumstances:

- Damage caused by force majeure events, including but not limited to earthquakes, fires, storms, floods, or landslides.
- Damage resulting from transportation arranged or performed by the customer.
- Damage caused by storage conditions that do not comply with the requirements specified in this manual.
- Hardware or data loss resulting from customer negligence, improper operation, or intentional misuse.
- System damage caused by third parties or the customer, including but not limited to incorrect installation or handling that does not follow the instructions in this manual.
- Damage resulting from unauthorized modification, adjustment, or removal of product labels contrary to the instructions provided in this manual.



WARNING — Follow these instructions to ensure safe and proper operation.

- Do not install, operate, or maintain the product during adverse weather conditions such as lightning, rain, snow, or strong winds. This includes activities such as handling the product, connecting or disconnecting outdoor signal cables, working at height, or performing outdoor installations.
- Always switch off the power source before starting any electrical work.
- Do not clean the product using water or other liquids.
- Do not attempt to disassemble the product by yourself.
- Periodically inspect the product and its accessories for signs of damage or wear.
- If the product enclosure is cracked or damaged, discontinue use immediately and contact **AliBayTech** support or your local **AliBayTech** distributor.
- In case of fire, use only a dry powder fire extinguisher suitable for electrical equipment.
- In the event of a fire, immediately evacuate the building or affected area. Activate the nearest fire alarm system and contact your local emergency services.
- Use only genuine cables and accessories supplied or approved by **AliBayTech** to reduce the risk of fire, electric shock, or personal injury.
- Keep the product away from heat sources and high-temperature environments, and avoid exposure to direct sunlight.
- Do not store or operate the product near flammable liquids, gases, or explosive materials.
- Ensure that the operating area is well ventilated and spacious.
- Do not block or cover the ventilation openings of the product, as this may cause overheating or permanent damage.
- Use the product only for its intended purpose. Avoid placing or stacking objects on top of the product during operation or storage.
- If a malfunction occurs, turn off the product immediately and contact **AliBayTech** support or your local **AliBayTech** distributor if the issue cannot be resolved using the instructions in this manual.
- Do not place the product on unstable, uneven, or inclined surfaces.
- Do not insert foreign objects into any ports or ventilation openings.
- Keep the product out of reach of children and pets.



Comply with applicable laws and regulations.

- Transportation, wiring, and maintenance must comply with all applicable laws, regulations, and standards.
- Any materials and tools provided by the user must meet the requirements specified in the relevant laws, regulations, and applicable standards.

Storage Instructions

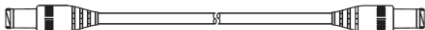
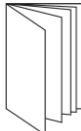
- When the State of Charge (SoC) drops to 5%, recharge the product as soon as possible.
- Before storing the product, charge the battery to approximately 40%–60% SoC to maintain optimal condition. Afterward, power off the product and disconnect all electrical connections.
- Store the product in a cool, dry environment away from flammable or combustible materials and gases.
- The product can be stored within a temperature range of -20°C to 45°C (-4°F to 104°F). However, if the storage period exceeds one month, maintaining a recommended storage temperature of around 30°C (86°F) is advised.
- To maintain battery health, perform a full charge and discharge cycle every three months. Long-term storage without cycling is not recommended, as it may affect performance and reduce battery lifespan.



If the SoC drops to 0% during storage or startup, follow the steps below to safely restore operation:

- Power off the product immediately.
- Recharge the product within 48 hours.
- Before charging, keep the product at an ambient temperature between 5°C and 35°C (41°F to 95°F) for approximately 24 hours. Charging via an AC power source is recommended.

2. Packing List

No	Item	Picture	Qty.
1	Titan DC Desk Charger Power Bank		1
2	20V/8A MAX. DC Power Cable DC5525, 30cm		1
3	XT30U Female Plug		1
4	User Manual		1

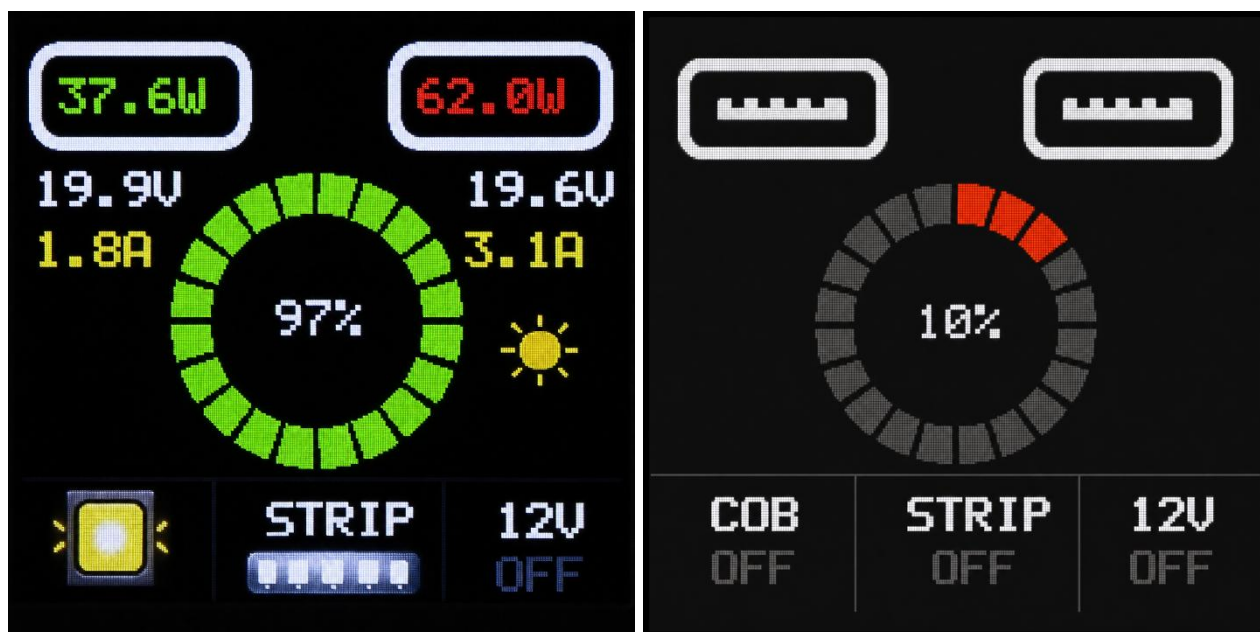
3. Product Overview



NO	DESCRIPTION	NO	DESCRIPTION
1	LCD DISPLAY	6	SIDE LED STRIPS
2	2 x USB-C PD Port	7	12V DC JACK OUTPUT
3	2 x USB-A Port	8	PV INPUT
4	CHARGE/DISCHARGE DISPLAY LEDS*	9	RESET BUTTON
5	TOUCH BUTTON	10	COB LED

**Its indicator stays steady green when discharging and steady red while charging.*

4. LCD Display



NO	ICON	DESCRIPTION
1	Pre-Charge Mode	The Pre-Charge Mode is enabled to protect the battery.
2	Low Battery Alert	The SoC drops below 10%.
3	Battery Capacity (SoC)	The remaining battery capacity.
4	Software Version	After startup, it displays for 3 seconds and then disappears.
5	USB-C Channel-1 Power	The real-time USB-C input/output power.
6	USB-C Channel-2 Power	The real-time USB-C input/output power.
7	USB-A Power Output	USB-A Output Power is enabled.
8	Error Code	When there's a fault, it displays an error code 3-seconds after startup; otherwise, it remains blank.
9	Battery State of Charge (SoC)	Each bar represents 10%.
10	Overload Alert	The Titan Desk Charger is overloaded.
11	Short Circuit Alert	The Titan Desk Charger has a short circuit.
12	Temperature Abnormal Alert	The temperature inside the product is too high or too low. Wait for it to return to normal.
13	COB LED Status	COB Led ON/OFF Status
14	LED Strip Status	Led Strip ON (%50) / ON (%100) / OFF Status
15	PV Input Status	PV Connection Status ON/OFF
16	DC Output	The 12V DC 5525 port is active

Note: To clear the short circuit and overload icons, remove all loads, then press the power button when the display is on.

5. Operations

5.1 Power ON / OFF

- **Power On:** Press and hold the power button for approximately 3 seconds until the display and indicator lights turn on. If the product is already powered on (button led steady ON) but the display is off, press the power button once to wake the display.
- **Power Off:** Press and hold the power button for approximately 3 seconds until the display and indicator lights turn off.



Note: 24h automatic shutdown if the LEDs are OFF and with no USB power out.

5.2 Strip and COB LEDs ON / OFF

- **LED Strip Control:** The LED strip supports two brightness levels for adjustable illumination. Each press of the button cycles through the lighting modes in the following order:

■ ■ □ □ Dim (50%) → ■ ■ ■ ■ Full Brightness (100%) → □ □ □ □ OFF



This dimming feature allows the user to select a lower brightness level for ambient lighting or full brightness when stronger illumination is required.

- **COB LED Control:** The COB LED can be turned ON or OFF by double-clicking the button.



5.3 Charging

5.3.1 USB Type-C Pre-Charge Mode

The product is equipped with a pre-charge function designed to safely recover batteries that have experienced deep discharge after long periods of inactivity. When the battery voltage falls below the normal operating threshold, the system automatically enters pre-charge mode to protect the battery and gradually restore it to a safe charging level.

During this process, the battery is charged with a reduced and controlled current to help protect cell health and extend overall battery lifespan.



Note:

- While the product is in pre-charge mode, the charging indicator LED remains red. During this stage, the display and button LEDs remain inactive.
- Once the battery voltage reaches the required threshold, the system will automatically transition to normal charging mode, after which the display and indicators will operate normally.

5.3.2 USB Type-C Charging

Connect the Titan DC01 to a standard wall outlet using the provided USB-C cable and power adapter. Once the battery is fully charged, the Titan DC01 automatically stops charging to prevent overcharging and protect battery health.



Adapter	Charging Time
20W Adapter	About 19 hours
65W Adapter	About 6 hours

Note:

- The charging time specified above is based on the PD 3.0 protocol.
- While the device is charging, the Titan DC01 cannot be powered off using the power button.
- If the Titan DC01 is fully charged and the adapter remains connected, charging will automatically resume only when the SoC drops below 95%.
- Actual charging duration may vary depending on the JEITA temperature-based charging algorithm, which adjusts charging parameters according to battery temperature to ensure safe and reliable operation.
- The LED indicator located next to the USB Type-C connector shows the charging status. A steady red light indicates that the product is charging.

5.3.3 Photovoltaic (PV) Charging

The product is equipped with a dedicated XT30U male connector for photovoltaic (PV) input. Solar charging can be performed by connecting a compatible solar panel using an XT30U female plug. Ensure that the connection is secure and that the solar panel is positioned appropriately to receive sufficient sunlight for effective charging.

PV Panel	Charging Time
12V Solar Panel (50W max)	About 12 hours

Note:

- The PV input supports 12V nominal solar panels with a maximum recommended input power of up to 50W.
- Do not connect power sources exceeding 28V to the PV input port, as this may cause permanent damage to the product.
- The LED indicator located next to the PV connector shows the charging status. A steady red light indicates that the product is charging, while a green light indicates that the battery is fully charged and charging has stopped.
- If the Titan DC01 is fully charged and the PV socket remains connected, charging will automatically resume only when the SoC drops below 95%.



Discharging

The Titan DC01 includes 2 USB-C ports, 2 USB-A ports, and a 12V DC port to power your various devices.

6. Specifications

ITEM	Specs
Battery Capacity	320Wh / 102.000mAh
Cell Type	LFP
Weight	Approx. 2.2kg
Dimensions (L × W × H)	175mm × 76mm × 146mm
Charging Temperature	0°C to 45°C
Discharging Temperature	-20°C to 45°C
Storage Temperature	-20°C to 45°C
Working Humidity	10% to 90%
Recharge cycle	2000* Times Cycle
Material	ABS housing
DC OUTPUT	
DC5525 Port	12VDC, 1.6A, 20W Max.
2 x USB-A	5VDC, 1.5A, Total 7.5W Max.
2 x USB-C (PD3.0)	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3A 130W (Each port 65W max)
DC INPUT	
2 x USB-C (PD3.0)	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/3A 130W (Each port 65W max)
Photovoltaic (PV) INPUT	17-28V (Max 1.5A)
LEDs	
2 x Side Led Strips	3mm COB Led Strip, 2.5W(total) CCT: 3000K to 6500K
COB LED	120mm x 35mm COB LED, 5W CCT: 4000K to 6500K

Note:

* When stored under recommended temperature and environmental conditions, the battery SOH is expected to remain above 80% of the initial capacity.

7. Troubleshooting

The error code appears on the display when the product malfunctions. Please refer to the table below for helpful guidance.

Problem	Possible Cause	Troubleshooting
Device not charging from power bank.	Cable issue, power bank low battery, incompatible device.	Try a different cable. Recharge the power bank. Ensure device is compatible with USB-C/USB-A charging.
Power bank not recharging.	Charger issue, cable issue, cold or hot temperature, wall outlet problem.	Ensure the 65W charger is properly connected and plugged into a working outlet. Try a different cable or outlet.
TFT LCD display not working	Power bank is off, power bank low battery, internal error.	Press the power button to activate the display. Recharge the power bank. If issue persists, contact support.
Slow charging speed.	Using incorrect port, cable not supporting fast charge, multiple devices connected.	Use the type-c one of the ports for fastest charging. Ensure your cable supports fast charging. Disconnect other devices if maximum speed is needed for one.
LEDs are not working	Power bank low battery, Touch button malfunction, internal error.	Recharge the power bank. Ensure that button working properly. If issue persists, contact support.
Touch Button is not working	Power bank low battery, internal error.	Recharge the power bank. If issue persists, contact support.

Note: If the troubleshooting steps above do not resolve the issue, press the reset button using a SIM-ejector tool or similar thin pin tool to restart the device. Ensure that the battery SoC is above 30% or that a USB-C charger is connected before performing the reset.

8. Maintenance

- Keep the product and charger away from extreme temperatures, direct sunlight, moisture, and liquids.
- Clean the product using a soft, dry cloth. Do not use harsh chemicals, solvents, or abrasive cleaning materials.
- When not in use, store the product in a cool and dry environment.
- Avoid dropping the product or exposing it to strong mechanical impacts.
- To maintain optimal battery performance and longevity, fully recharge the product at least once every three months if it is not used regularly.
- Do not attempt to open, repair, or modify the product. All service operations must be performed by AliBayTech authorized service personnel.
- Periodically inspect connectors, cables, and ports for dust, corrosion, or foreign objects before use.
- If the product is moved from a cold environment to a warm environment, allow it to reach ambient temperature before use to prevent condensation inside the device.
- Ensure that the ventilation openings are not blocked, allowing proper heat dissipation during operation.

9. Technical Support & Warranty

AliBayTech products are designed for reliability and high performance. AliBayTech is a Turkish technology company, and this product has been fully designed by Turkish engineers and manufactured within the borders of Türkiye. It represents a 100% locally designed and produced product.

For detailed warranty information, please refer to the warranty card included in the product packaging or visit the official AliBayTech website.

If you encounter any issues or have questions regarding your product, please contact AliBayTech customer support through the official support channels.

For the latest support resources and contact information, please visit:

<https://www.alibaytech.com/>

EU Declaration of Conformity



The manufacturer hereby declares that this equipment complies with the applicable European Directives, Regulations, and relevant harmonized standards. The full text of the EU Declaration of Conformity is available at the following internet address:

<https://www.alibaytech.com/service/support/declaration.html>

WEEE Information



Products marked with this symbol are classified as Waste Electrical and Electronic Equipment (WEEE) in accordance with Directive 2012/19/EU and must not be disposed of with unsorted household waste. To protect human health and the environment, please deliver this product to a designated collection point for the recycling of electrical and electronic equipment, as designated by government or local authorities. Proper disposal and recycling help prevent potential negative impacts on the environment and human health. For more information about collection points and recycling procedures, please contact your local authorities or waste management services.

