

TBB POWER VS28, VS28-LS Monitor and Control User Manual

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TBB POWER VS28, VS28-LS Monitor and Control



Product Description

Overview

VS28 and VS28-LS are two 2.8-inch displays with hardware switches developed by our company, which can display the real-time operation status of each product of the system, and allow for page turning / setting and other operations through the 4 buttons below the screen. They can be used as small accessories for displaying and parameterizing lithium batteries or inverters.





(Left: VS28 Right: VS28-LS)

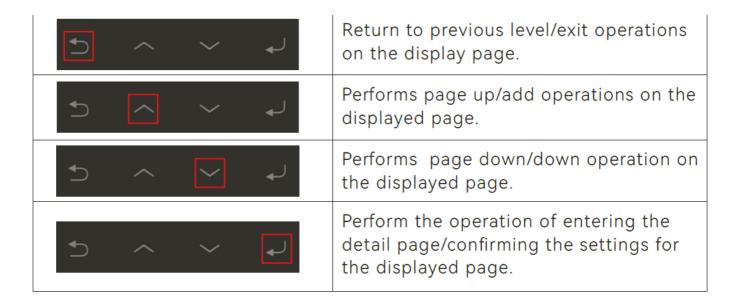
The difference between VS28 and VS28-LS is the power switch in the upper right corner. VS28 is a momentary switch with white silkscreen and white light; VS28-LS is a latching switch with blue silkscreen and blue light.

Note: The momentary switch is a switch that automatically springs back when pressed and released; the latching switch is a switch that is fixed and does not automatically spring back when pressed and released.

Operating Instructions

Switches/Buttons		Instructions	
÷	Ď	For power switches, select different switch models for different power devices. Example: A Latching battery can only be turned on using a Latching Switch (VS28-LS).	
(Left : VS28	Right : VS28-LS)	Light display: when the light is on, it indicates the power is on; when the light is off, it indicates the power is off.	

Curitabas / Duttana		
Switches/Buttons	Instructions	
	When connecting a TBB lithium battery, the light will not be on even when battery is being charged.	
	Note: When the display is connected to the battery, the power switch controls the battery power (allowing it to discharge). When the display is connected to the inverter, the power switch controls the inverter's auxiliary power (putting the inverter in standby mode and supplying power to the screen).	
*~~~~	The inverter's inverter/standby switch. It will only take effect when the TBB inverter is plugged in. Lamp display: when the lamp is on, it indicates the inverter is in Inverter mode; when the lamp is off, it indicates the inverter is in Standby mode.	



System Configuration

The VS28 and VS28-LS currently support the following configuration connections:

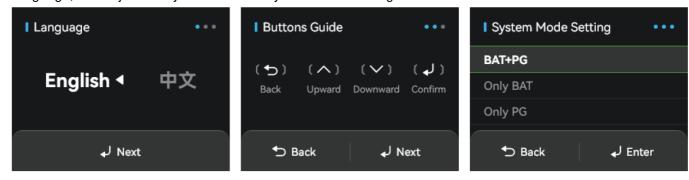
	VS28	VS28-LS
BAT+PG	Support	Support
Only BAT	Support	Support
Only PG	/	Support
Only CM/CC	/	Support

· BAT: TBB M series lithium battery

• PG: TBB PG series all-in-one power module

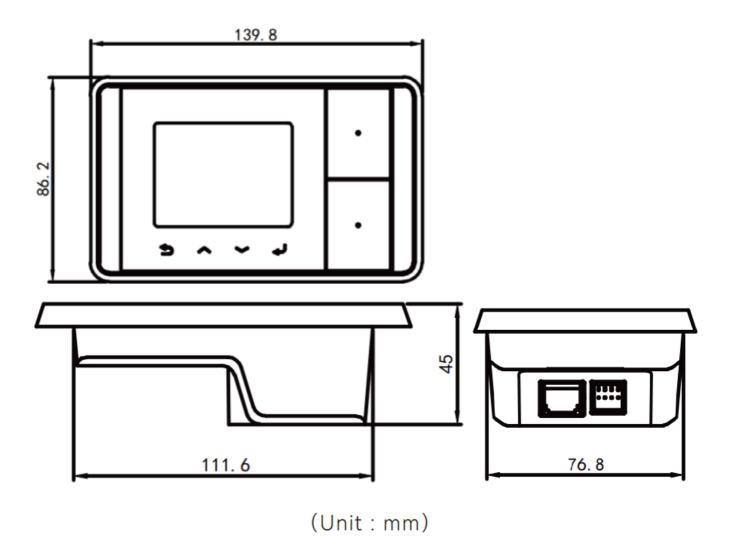
• CM/CC: TBB CM/CC series inverter charger

On first startup, a setup wizard screen appears for selecting system language and system mode. After completing the setup you can enter the home page. Users can change the language in Settings > Screen Settings > Language, and adjust the system mode in System Mode Settings.



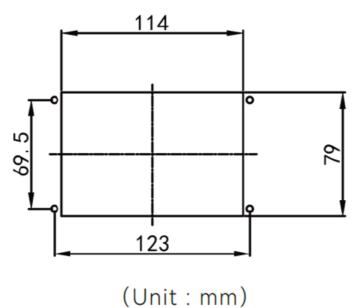
Note: The display connects to different systems with varying contents and functions. This document introduces only the general software. When accessing a specific system, please refer to the respective system's documentation for detailed information.

Installation and Fixing

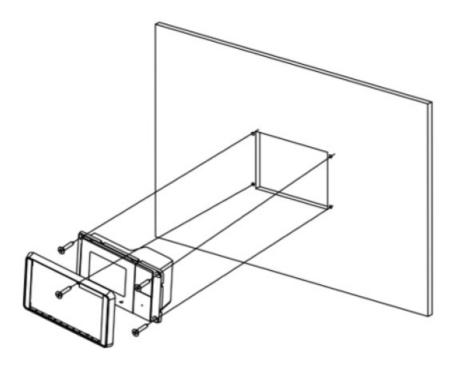


Installation Diagram

1. Slotting size chart, the screen is recessed installation, need to first open a 114 x 79mm slot on the installation surface.



2. Remove the decorative cover from the display, place the display into the open slot first, use the 4 M4 screws in the package to secure it and then put the decorative cover back on.



Product Interface



①Vehicle Specification Terminal		②RJ45 Network Port	
Pin	Function	Pin	Function
Pin1	12V Power Positive	Pin1	Dry Contact Switches
Pin2	RS485_B-	Pin2	Dry Contact Switches
Pin3	RS485_A+	Pin3	RS485_A+
Pin4	12V Power Negative	Pin4	CAN_H
Pin5	CAN_H	Pin5	CAN_L
Pin6	Dry Contact Switches	Pin6	RS485_B-
Pin7	Dry Contact Switches	Pin7	12V Power Positive
Pin8	CAN_L	Pin8	12V Power Negative

Product Parameters

Models	VS28	VS28-LS	
Power Switch Types	Momentary Switch	Latching Switch	
Rated input voltage (V)	12		
Input Voltage Range (V)	6~16		
Input Current (mA)	200		
Average current (mA)	100		
Display size A.A (mm)	43,20 x 57,60		
Resolution (Pixels)	320 x 240		
Dimensions (mm)	139,8 x 86,2 x 45		
IP Rating	IP20		
Weight (g)	180		
Operating ambient temperature (°C)	-20~70		
Storage ambient temperature (°C)	-30~80		
Altitude (m)	5 000		

Companion Bluetooth Application

Both VS28 and VS28-LS have a built-in Bluetooth module, which can be connected via a mobile app. This allows data to be viewed and configured on both the display and the device. Note: The display is connected to different systems with different contents and functions, and the app used may differ accordingly. Only the general software is introduced here. For detailed information, please refer to the respective system introduction.

TBB Connection APP

• Google Play Store Download:

- https://play.google.com/store/apps/details?id=com.tbbpower.-inverter.pack.p48
- · Apple Store download:
 - https://apps.apple.com/cn/app/tbb-connection/id6569235562
 TBB official website download (APK installer):
 - https://www.tbbpowermobile.com/support/TBB%20Connection



- Left: Google Play Store download address.
- Middle: Apple Store download address.
- Right: TBB official website download address.

Precautionary

- 1. Please do not drop water, cola, alcohol and other liquids into the display, as it may cause corrosion of the circuit board or display malfunctions.
- 2. Please refer to the interface definition for the external wiring of the display, and do not connect wrongly or inversely, to avoid irreversible damage to the circuit.
- 3. Please do not use sharp objects to scratch the screen or impact the screen.

Please use your mobile browser to scan the QR code to get the latest version of the manual.



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FAQs

- Q: What is the difference between VS28 and VS28-LS?
 - **A:** The main difference is in the power switch type VS28 has a momentary switch, while VS28-LS has a latching switch.
- Q: How do I know if the inverter is in Standby or Inverter mode?
 - A: The lamp display indicates the mode on for Inverter mode, off for Standby mode.

Documents / Resources



TBB POWER VS28, VS28-LS Monitor and Control [pdf] User Manual

VS28, VS28-LS, VS28 VS28-LS Monitor and Control, VS28 VS28-LS, Monitor and Control, Control

References

- MIN TBB CONNECTION
- User Manual

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