

CHV Series Vector Control Inverter Options

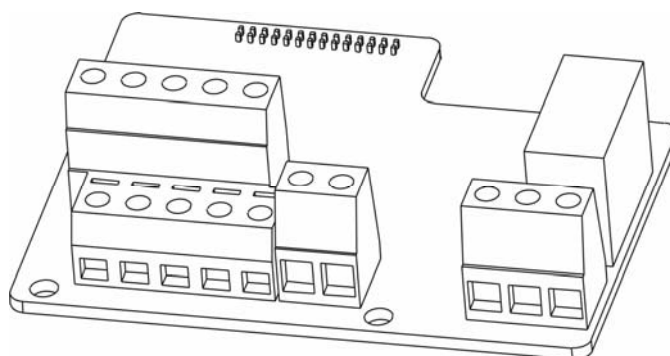
Operating Instructions for IO Extension Card

1. Model and Specifications

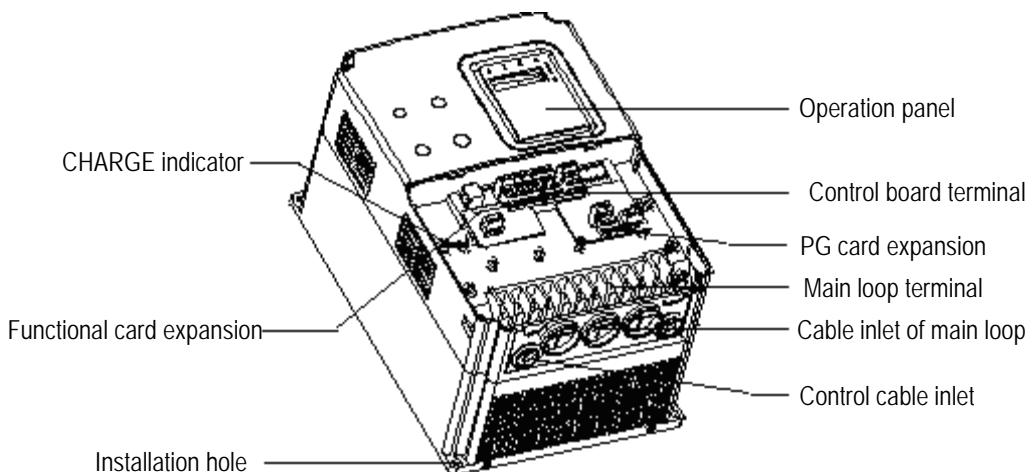
1.1 Model Description

The model of IO extension card for CHV series inverters is CHV00-IO. It provides CHV series inverters with more output and output wiring terminals to satisfy special control requirements of users.

1.2 Schematic Diagram of Appearance



1.3 Schematic Diagram of Installation



2. Schematic Diagram of Terminal Sequence

S6	S7	S8	AI3	AI4
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HDI2	COM	CME2	Y2	AO2	RS485+	RS485-	RO3A	RO3B	RO3C
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3. Terminals of IO Expansion Card

Terminal No.	Purpose and Description
S6~S8	Digital input terminals, forming optical coupling isolation input with PW and COM; Input voltage range: 9~30V Input impedance: 3.3 K Ω
HDI2	High-speed pulse or digital input, forming optical coupling isolation input with PW and COM; Range of pulse input frequency: 0~50 KHz Input voltage range: 9~30V Input impedance: 1.1 K Ω
COM	Common terminal for +24V or external power supply
AI3	Analog input, voltage range: -10V to 10V Input impedance: 10 K Ω
AI4	Analog input, voltage (0-10V)/current (0~20mA); optional through J1; Input impedance: 10 K Ω (voltage input)/ 250 Ω (current input)
Y2	Open collector output terminal, with the corresponding common terminal as CME External voltage range: 0~24V Output current range: 0~50 mA
CME2	Common terminal for open collector output
AO2	Analog output terminal, supporting voltage or current output selection through jumper J2 Output range: Voltage (0~10V)/current (0~20 mA)
RS485+, RS485-	RS485 serial communication
RO3A, RO3B, RO3C	RO3 relay output, RO3A common terminal, RO3B always close, RO3C always open Contact capacity: AC 250V/3A, DC 30V/1A

4. Jumpers

Jumper Name	Description
J1	Voltage (0~10V)/current (0~20mA) input switching jumper; Short-circuiting of 1(V) and 2 (GND) generates voltage input; short-circuiting of 2 (GND) and 3 (I) generates current input.
J2	Voltage (0~10V)/current (0~20mA) output switching jumper Short-circuiting of 1(V) and 2 (GND) generates voltage output; short-circuiting of 2 (GND) and 3 (I) generates current output.
S1	RS485 communication port terminator setting selection; If the DIP switch is set to be ON, the terminator is enabled; if the DIP switch is set to OFF, the terminator is disabled. If the RS485 communication port is located at the end of the RS485 communication network cable, a terminator is needed.