

Operation Guideline for QH100-PV Switching Module

QH100-PV switching module is developed by INVT for Goodrive100-PV series solar pumping inverter with the aim of achieving automatic mains and PV switching. Below is the functional block diagram for this module, in which the "voltage detection/judging circuit" outputs ON/OFF signal S,COM based on the preset threshold. This module can realize automatic mains and PV switching by combining with necessary low voltage apparatus.

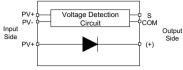


Fig.1: QH100-PV functional block diagram

This guideline mainly introduces module installation and wire connection. In cases where it is required to work with Goodrive100-PV inverter, refer to "Operation Manual for Goodrive100-PV series Solar Pumping Inverter" for more details.

1. Type designation and specification

QH100 - 055A - 4 - PV
1 2 3 4

Type designation illustration

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Field identification	Sign	Detailed description	Content		
Abbreviation for		Abbreviation for	QH100 series mains and PV switching		
product series	1	product series	module		
Data dan marat	2	Power range for	055A—adaptive to 0.4~15kW inverter		
Rated current		adaptive inverter	110A—adaptive to 18.5~37kW inverter		
\/alta ea da esa a	3	\ /alta na da maa	4: AC 3PH 380V(-15%) ~ 440(+10%)		
Voltage degree		Voltage degree	2: AC 3PH 220V(-15%) ~ 240(+10%)		
Code	4	Industry code	PV: Photovoltaic water pump series		

2. Installation and dimension

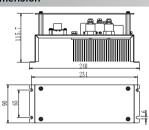


Fig.2: Installation dimensions (unit: mm)

Caution: In order to ensure safe and reliable operation of this product, extra cooling method (such as a DC fan) is required.

3. Recommended wire connection

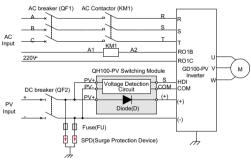


Fig.3: Recommended connection diagram

Terminal instruction

Terminal symbol	Terminal name	Terminal function		
PV+	5) (; , ,	Voltage detection board input, anode of diode module, connect with PV input anode		
PV-	PV input	Voltage detection board input, connect with PV input cathode		
(+)	Switching module output	Cathode of diode module, connect with inverter (+)		
S,COM	Voltage detection signal	ON/OFF signal, corresponding PV voltage greater/less than preset threshold, connect with HDI, COM terminal of the inverter		

4. Parameters setting

When using QH100-PV to work with Goodrive100-PV Inverter,set the parameters as below:

Parameter	Only PV input	Only mains input	Mains / PV switching
P15.32	2	1	0

5. Product and Service Inquires

Address any inquires about the product to your local INVT offices, quoting the type designation and serial number of the unit in question. A list of INVT offices can be found on www.invt.com.cn.

