

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.

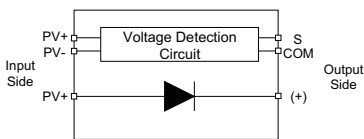


Fig.1: QH100-PV functional block diagram

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:

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

2. Installation and dimension

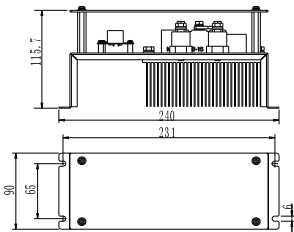


Fig.2: Installation dimensions (unit: mm)

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

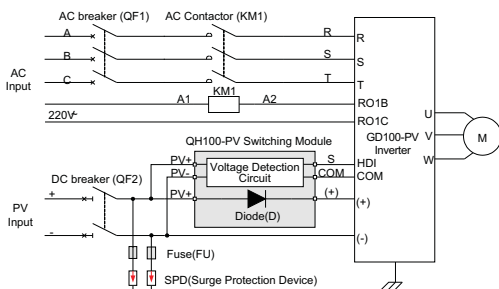


Fig.3: Recommended connection diagram

Terminal instruction:

Terminal symbol	Terminal name	Terminal function
PV+	PV input	Voltage detection board input, anode of diode module, connect with PV input anode
PV-		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.



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