

# Goodrive100-PV

## MPPT Solar Water Pumping Inverter

*Your Trusted Industry Automation Solution Provider*



Service line:86-755-86312859 E-mail:overseas@invt.com.cn

**SHENZHEN INVT ELECTRIC CO., LTD.**

No.4 Building, Gaofa Scientific Industrial Park, Longjing, Nanshan District, Shenzhen, China

Industrial Automation:	• Frequency Inverter • HMI	• Servo & Motion Control • Intelligent Elevator Control System	• Motor & Electric Spindle • Traction Drive	• PLC • Online Energy Management System
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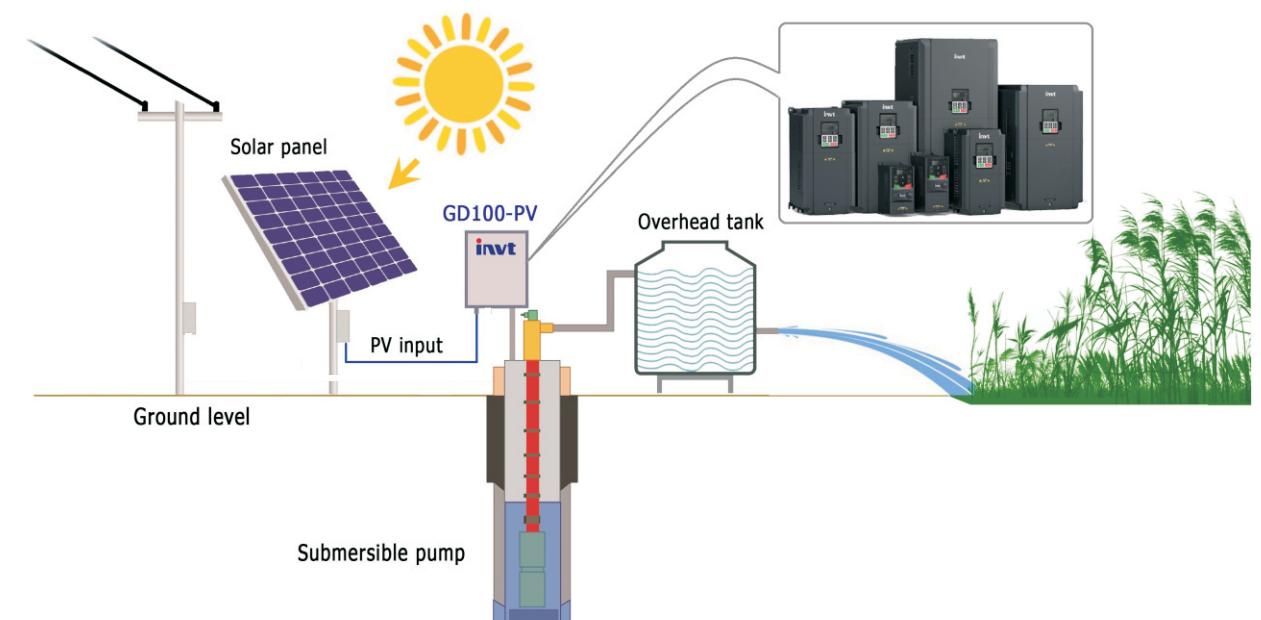




## Introduction

GD100-PV is a special inverter for the PV water pump running and control using MPPT to ensure maximum yield.

It takes direct DC from PV panels, converts it into AC power and runs three phase AC pumps during sunlight hours.



PV pump application system

## Product Introduction



- 1 Maximizing power generation efficiency of solar modules with the use of advanced MPPT control technology
- 2 Adjusting water outflow of pumps quickly on basis of sunlight intensity change
- 3 Automatic hibernation at weak sun light and wakeup and strong sun light  
(i) Hibernate at high water level and wake up at low water level  
(ii) Hibernate at sunrise and sunset and wake up at strong sunlight
- 4 Underload protection and fault protection of water level sensor avoiding pumping off after water supply dries up

## Product Applications



Domestic water



Municipal water



Agriculture irrigation



Pasture animal husbandry



Forestry irrigation



Desert control

## Product rated specification parameters

Series	Model	Rated output power (kW)	Rated input current (A)	Rated output current (A)
-4 Three-phase, output 380V (0.75-110kW)	GD100-0R7G-4-PV	0.75	3.4	2.5
	GD100-1R5G-4-PV	1.5	5.0	4.2
	GD100-2R2G-4-PV	2.2	5.8	5.5
	GD100-004G-4-PV	4.0	13.5	9.5
	GD100-5R5G-4-PV	5.5	19.5	14
	GD100-7R5G-4-PV	7.5	25	18.5
	GD100-011G-4-PV	11	32	25
	GD100-015G-4-PV	15	40	32
	GD100-018G-4-PV	18.5	47	38
	GD100-022G-4-PV	22	56	45
	GD100-030G-4-PV	30	70	60
	GD100-037G-4-PV	37	80	75
	GD100-045G-4-PV	45	94	92
	GD100-055G-4-PV	55	128	115
	GD100-075G-4-PV	75	160	150
	GD100-090G-4-PV	90	190	180
	GD100-110G-4-PV	110	225	215

Note: When demanding for the inverters above 37kW, contact INVT to customize.

## Product Specifications

## Product function parameters

Model	-4
Max. Solar input voltage (V)	800
Start-up voltage (V)	300
Lowest working voltage (V)	250
Recommended Solar input voltage range (V)	300~750
Recommended MPPT voltage (V)	550
Rated output AC voltage (V)	380 (3PH)
Output frequency range (Hz)	0~400
MPPT	99%
Installation manner	Wall mounting/Rail mounting/Flange mounting
Environment temperature	-10°C~+50°C If above 40°C, derate 2% for every additional 1°C.
Altitude	Below 1000m If above 1000m, derate 1% for every additional 100m.
Cooling manner	Fan cooling
Protection level	IP20; IP54 (Cabinet)