

Solar Pumping Controller

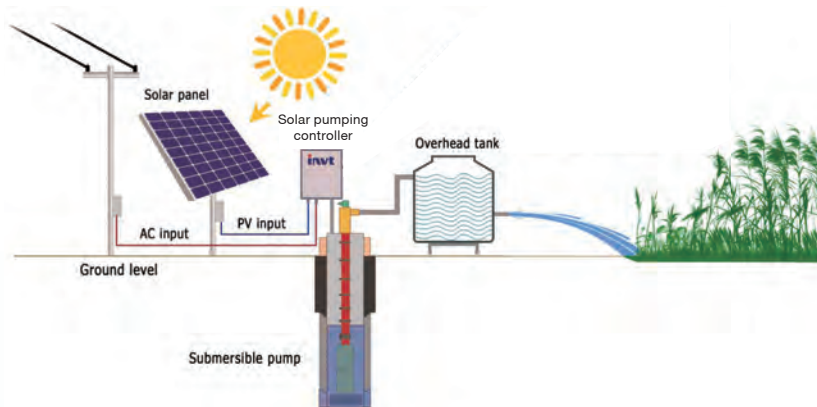
GD100-PV & BPD & SPC



Company Profile

INVT, established in 2002, is committed to be the globally leading and respected provider for products and services of industrial automation and electric power.

Manufacture controller, PLC, HMI, Servo and UPS, widely applied the industries of solar pump, lifting, mining, metallurgy, textiles, machine tools, chemical, plastics, oil&gas, municipal, cement, power, etc.



Product Introduction



GD100-PV

1AC 220V 0.4~2.2kW / 3AC 220V 1.5~7.5kW / 3AC 380V 0.75~200kW

1. Advanced MPPT control technology
2. Automatic start only after connecting to solar panel without parameter setting
3. Models(≤ 2.2 kW) support boost module
4. Support the GPRS module for optional
5. Solution for automatic switch
6. Support cabinet product for IP54



BPD

1AC/3AC 220V 0.75~4kW, 3AC 380V 2.2~5.5kW (AC input is available)

1. Support multiple types of motors
2. Protection level: IP65
3. Support grid electricity input and diesel engine input
4. Low start voltage and wide input voltage range
5. Provide lighting protection, overvoltage, over current, overload protection function etc
6. Optional water level detection function



SPC

3AC 220V 2.2kW, 3AC 380V 4kW/7.5kW (DC input only)

1. Advanced MPPT function
2. Protection level: IP65 or IP00 (for SKD)
3. Integrated with GPRS
4. Optional DC switch
5. Multiple protection functions: dry running, lower sunshine, lightning protection, etc
6. Support multiple types of motors

Type Selection

GD100 – 5R5G – 4 5 – PV

① ② ③ ④ ⑤

Field	Sign	Description	Remarks
GD100	①	Product abbreviation	GD100 is short for Goodrive100
5R5G	②	Rated power + Load type	5R5G: 5.5kW G: Constant torque load
4	③	Voltage degree	4: AC 3PH 380V (-15%)–440(+10%) 2: AC 3PH 220V (-15%)–240(+10%) S2: AC 1PH 220V (-15%)–240(+10%) SS2: AC 1PH input/output 220V (-15%)–240(+10%)
5	④	Protection level	5—IP54 The protection level of a standard inverter is IP20, but this field is not displayed.
PV	⑤	Industrial code	PV stands for solar pumping.

BPD – XKX – TN – AC

① ② ③ ④


Field	Sign	Description	Remarks
BPD	①	Product abbreviation	Name of the PV pumping inverter series
XKX	②	AC output power	Rated AC output power 1500W: 1K5 5000W: 005
TN	③	Technical type	TR: 3PH TN: 1PH/3PH
AC	④	Extension code	The default is a standard model; AC indicates that AC input is supported; and ACS indicates that AC input is provided and a DC switch is configured.

SPC XKX TR 4 6

① ② ③ ④ ⑤

Field	Sign	Description	Remarks
SPC	①	Product abbreviation	Name of the PV pumping inverter series
XKX	②	AC output power	Rated AC output power 2200W: 2K2
TR	③	Technical type	TR: three-phase output
4	④	Output voltage	2: 220V 4: 380V
6	⑤	Protection level	0: IP00 6: IP65

Technical Specification

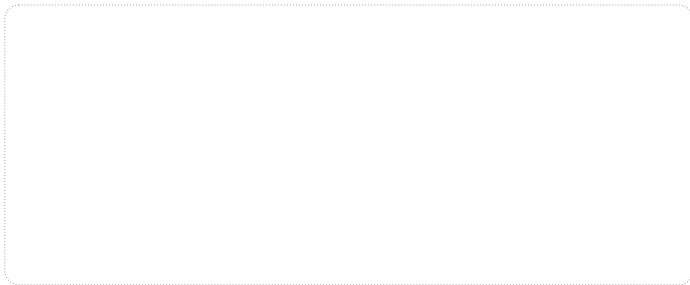
Product series				
		GD100-PV	BPD	SPC
Product features				
Basic characteristics	Input voltage and power(kW)	1AC 220V 0.4~2.2kW 3AC 220V 1.5~7.5kW 3AC 380V 0.75~200kW	1AC 220V~240V: 0.75~2.2kW 3AC 380V: 2.2~5.5kW	DC 450V(Max.): 2.2kW DC 800V(Max.):4kW/7.5kW
	Recommended MPP voltage range	--SS2/-S2/-2: 200~400V -4: 300~750V	0.75kW(220V): 80~400V 1.5~4kW(220V): 100~400V 2.2~5.5kW(380V): 220~750V	220V: 200~400V 380V: 300~750V
	Support motor type	AM	AM	AM,SM,BLDC
	Control mode (Asynchronous motor)	VF/SVC	VF	VF/SVC
	Overload capability	150% of rated current: 1 minute 180% of rated current: 10 seconds 200% of rated current: 1 second	150% of rated current: 1 minute 180% of rated current: 10 seconds 200% of rated current: 1 second	120% of rated current: 1 minute 150% of rated current: 10 seconds
Structure characteristics	Installation	Wall mounting Rail mounting Flange mounting	Wall mounting	Wall mounting
	Degrees of protection	IP20/IP54 cabinet	IP65	IP00/IP65
	Cooling method	Air cooling	Natural cooling	Natural cooling
Hardware configuration characteristics	Analog input	2	/	/
	Digital input	4	3	2
	Analogue output	2	/	/
	Relay output	2	/	1
	Communication	RS485	RS485	RS485
	DC input	Standard	Standard	Standard
	AC input	Standard	Standard	/
	DC/AC input Automatically switch	Optional	Standard	/
	LED keyboard	Built-in LED keyboard	External LED keyboard	External LED keyboard
	GPRS moduel	Optional	Optional	Built-in
Technical features	MPPT efficiency	99%	99%	99%
	Water level control	✓	✓	✓
	Automatic Hibernation and start function	✓	✓	✓
Protection	Lower-sunshine alarm, Overload/Lower-load protection, Over current protection, Over voltage protection, Water level protection, etc.			
Certification	CE	CE	/	



Application



Your trusted industry automation solution provider



Service line: 86-755-23535967 E-mail: overseas@invt.com.cn Website: www.invt.com

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|-------------------------------|----------------------------------------------|---------------------------------------|----------------------------|-----------------------------------|
| Industrial Automation: | • Frequency AC Drive | • Servo & Motion Control | • Motor & Electric Spindle | • PLC |
| | • HMI | • Intelligent Elevator Control System | • Traction Drive | |
| Electric Power: | • SVG | • Solar Pump Controller | • UPS | • Online Energy Management System |
| | • New Energy Vehicle Electric Control System | | | |

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