

GD170-PV Series

Solar Pump Controller

GD170-PV is the new generation of solar pump controller. It has compact structure and outstanding performance in one. The advanced MPPT function makes sure providing the most energy efficient operation of the pump, and rich protection functions ensure the smooth and safe operation.

In summary, it provides a excellent balance of Easy Installation, Easy operation, Advanced pump-control capacity.



Compact and powerful	Advanced MPPT algorithms	Effective protection function	Remote monitor

Applications



Type Selection

GD170 – 5R5 - 4 - PV

① ② ③ ④

No.	Sign	Description	Remarks
①	GD170	Product abbreviation	GD170
②	5R5	Power range	5R5: 5.5kW
③	4	Voltage degree	4: AC 3PH 380V (-15%)-440(+10%)
④	PV	Industrial code	PV stands for solar pump.

Product Specification

DC input	
Max DC voltage(V)	800
Start voltage(V)	300
Min. work voltage(V)	250
Recommended MPPT voltage(V)	300~750
Recommended input work voltage(V)	550
AC input	
Input voltage(Vac)	/
Input frequency(Hz)	/
AC output	
Output voltage(Vac)	0-input voltage
Output frequency(Hz)	0-400
Control performance	
Motor type	Asynchronous and synchronous
Overload capability	120% of rated current: 1 minute
	150% of rated current: 10 seconds
Others	
Protective degree	IP20
Cooling method	Forced air cooling
Interface	LED keypad
Professional function	
Protection function	Underload or phase loss protection
MPPT function	Automatic factory setting
Auto run/stop	Sleep when the light is weak, and wake up when the light is strong
Water level monitor	Sleep when the water is full, and wake up when the water level is low
Certification	
Certification standard	IEC62109-1/IEC62109-2/IEC61683

Product Parameters

Voltage	Model	Rated output power (kW)	Max. DC input current (A)	Rated input current (A)	Rated output current (A)	Product dimension (mm)
3PH 380V	GD170-2R2-4-PV	2.2	12	5.8	5.5	80*185*143.5
	GD170-004-4-PV	4.0	16.5	13.5	9.5	
	GD170-5R5-4-PV	5.5	24	19.5	14	
	GD170-7R5-4-PV	7.5	23.9	25	18.5	146*256*166.5
	GD170-011-4-PV	11	30.6	32	25	
	GD170-015-4-PV	15	39.2	40	32	170*320*196
	GD170-018-4-PV	18.5	49	47	38	
	GD170-022-4-PV	22	50	56	45	200*340.6*183.3
	GD170-030-4-PV	30	60	70	60	
	GD170-037-4-PV	37	81	80	75	250*400*202
GD170-045-4-PV	45	90	98	92		



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

SHENZHEN INVT ELECTRIC CO.,LTD.

INVT Guangming Technology Building, Songbai Road, Matian, Guangming District, Shenzhen, China

INVT Copyright.
Information may be subject to change without notice during product improving.

66003-00243 20210324(V1.0)