



# GD170-PV Series Solar Pump Controller

- Compact and powerful
- Effective protection function
- Advanced MPPT algorithms
- Remote monitor

## Type Selection

**GD170 - 5R5 - 4 - PV**

### Product abbreviation

GD100 is short for Goodrive170

### Power range

5R5: 5.5kW

### 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%)

### Industrial code

PV: Photovoltaic water pump series products

## Product Parameters

Voltage	Model	Rated output power (kW)	Max. DC input current (A)	Rated input current (A)	Rated output current (A)	Product dimension (mm)
1PH 220V Input/output	GD170-1R5-SS2-PV	1.5	12	15.7	10.2	80*185*140.5
	GD170-2R2-SS2-PV	2.2	12	24	14	
1PH 220V	GD170-1R5-S2-PV	1.5	12	15.7	7.5	
	GD170-2R2-S2-PV	2.2	12	24	10	
3PH 220V	GD170-1R5-2-PV	1.5	12	7.7	7.5	146*256*167
	GD170-2R2-2-PV	2.2	12	11	10	
	GD170-004-2-PV	4.0	20	17	16	170*320*196.3
	GD170-5R5-2-PV	5.5	30	25	20	
	GD170-7R5-2-PV	7.5	40	33	30	
3PH 380V	GD170-2R2-4-PV	2.2	12	5.8	5.5	80*185*140.5
	GD170-004-4-PV	4.0	16.5	13.5	9.5	146*256*167
	GD170-5R5-4-PV	5.5	23.9	19.5	14	
	GD170-7R5-4-PV	7.5	30.6	25	18.5	
	GD170-011-4-PV	11	39.2	32	25	170*320*196.3
	GD170-015-4-PV	15	49	40	32	
	GD170-018-4-PV	18.5	50	47	38	200*340.6*184.3
	GD170-022-4-PV	22	60	51	45	
	GD170-030-4-PV	30	81	70	60	
	GD170-037-4-PV	37	90	80	75	
	GD170-045-4-PV	45	130	98	92	250*400*202
	GD170-055-4-PV	55	150	128	115	282*560*238
GD170-075-4-PV	75	200	139	150		

Voltage	Model	Rated output power (kW)	Max. DC input current (A)	Rated input current (A)	Rated output current (A)	Product dimension (mm)
3PH 380V	GD170-090-4-PV	90	250	168	180	338*554*326
	GD170-110-4-PV	110	300	201	215	
	GD170-132-4-PV	132	360	265	260	500*870*360
	GD170-160-4-PV	160	430	310	305	

## 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)	380V(-15%)~440(+10%)
Input frequency(Hz)	47 ~ 63
AC output	
Output voltage(Vac)	0-input voltage
Output frequency(Hz)	0-400
Control performance	
Control method	V/F (SVPWM)
Motor type	Asynchronous and synchronous
Overload capability	120% of rated current: 1 minute 150% of rated current: 10 seconds
Reset function	Support fault (except for IGBT over-current) reset. Reset time, interval time
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

## Applications



Domestic water



Agriculture irrigation



Pasture animal husbandry



Desert control



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