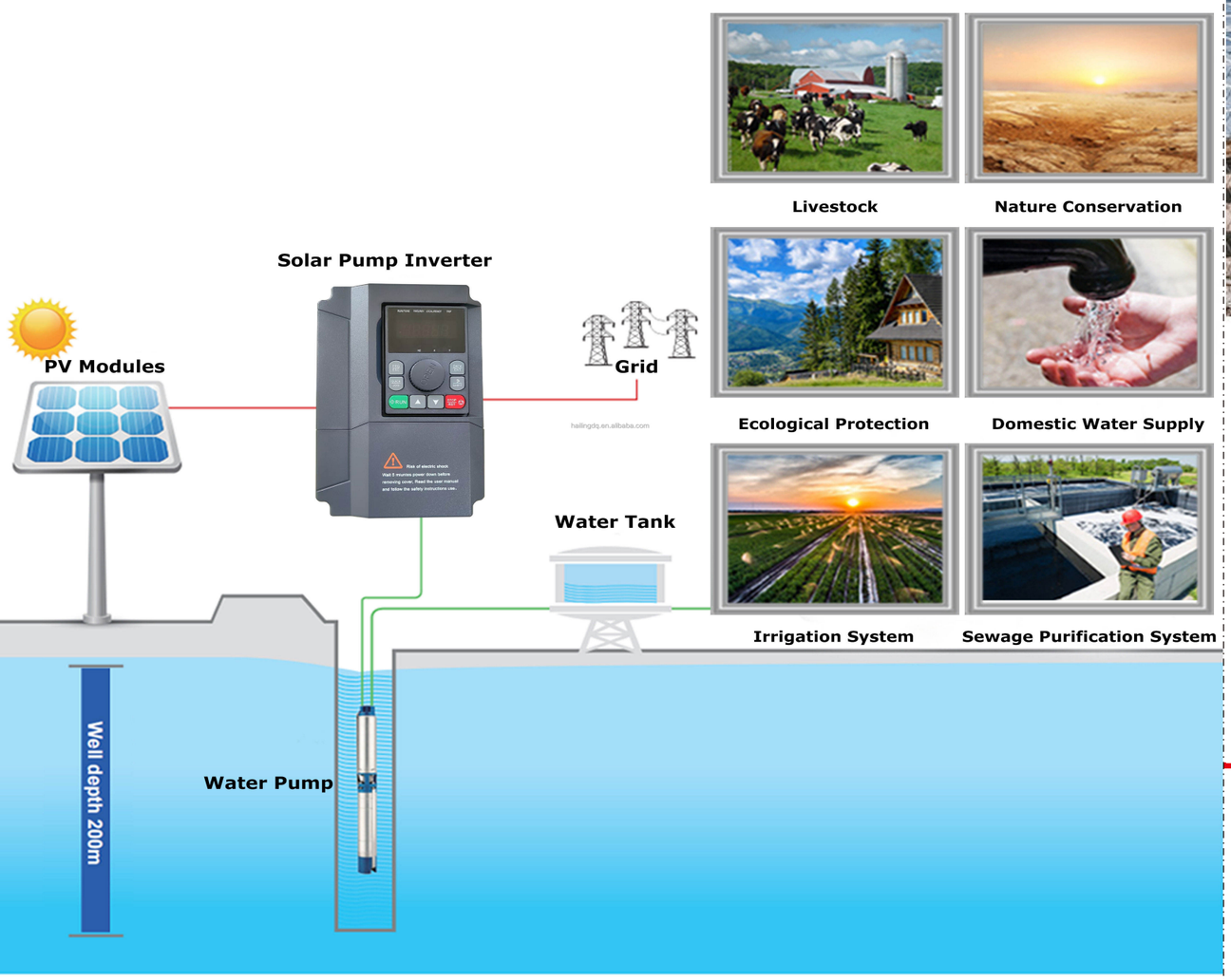
HAL
HAIRLING INVERTER

HL710 Series Solar Pump Inverter

Solar pumping system is composed of PV arrays, solar pump controller, combiner box and water pump,etc. It is widely used for agricultural irrigation, water storage and many other scenes. It can effectively solve the problems of water shortage in water-scarce areas and prvent soil erosion.

Applications



Livestock

Nature Conservation

Ecological Protection

Domestic Water Supply

Irrigation System

Sewage Purification System



HL710 Solar Pump Contorller

HL710 0.75Kw-160Kw

■ Flexibility

- Compatible with any IEC three-phase asynchronous motors
- Compatible with popular solar arrays
- Grid main supply optional

■ Smartness & Reliability

- Self-adaptive MPPT technology with up to 99% efficiency
- 10-year market application experience in pump drive
- Smart IGBT module embedded
- Built-in overload and dry-run motor protection function

■ Cost effectiveness

- Plug-and-play system design
- Embedded pump protection functions
- Battery-free for most applications
- Easy to maintain

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WhatsApp

■ HL710 2.2kW~18.5kW Datasheet

Controller Model	HL710-2R2GT2	HL710-2R2GT4	HL710-004GT4	HL710-5R5GT4	HL710-7R5GT4	HL710-011GT4	HL710-015GT4	HL710-018GT4
Input Data								
PV Source								
Max Input Voltage(Voc) [V]	450V DC	800V DC						
Recommended voltage at MPPT	275~380V DC	500V DC~750V DC						
Recommended PV array power [kW]	2.7~3.5	2.7~3.5	4.8~6.4	6.6~8.8	9~12	13.2~17.6	18~24	22.2~29.6
Input voltage	220V AC Single phase	380V AC(±15%), Three phase						
Max Amps(RMS) [A]	9	5.8	10.5	14.6	20.5	26	35	38.5
Output Data								
Output Power, rated [kW]	2. 2	2. 2	3.7	5.5	7. 5	11	15	18.5
Output Voltage, rated	220V AC Three phase	380V AC(±15%), Three phase						
Max Amps(RMS) [A]	9.6	5.1	9	12	17	25	32	37
Output Frequency	0-50Hz/60Hz							
General Data								
Dimensions(H*W*D) [mm]	187*88*138		207*100*147	247*130*167		345*182*216		373*220*205
Gross Weight [kg]	2.8		4.2	6.0		8.7		10.8
Standard Warranty [month]	18							
Certificates	IEC/EN 61800-5-1, IEC/EN 61800-2:2004, IEC/EN 61800-3:2004, CE							

■ HL710 22kW~110kW Datasheet

Controller Model	HL710-022GT4	HL710-030GT4	HL710-037GT4	HL710-045GT4	HL710-055GT4	HL710-075GT4	HL710-093GT4	HL710-110GT4
Input Data								
PV Source								
Max Input Voltage(Voc) [V]	800V DC							
Recommended voltage at MPPT	500V DC~750V DC							
Recommended PV array power [kW]	26.4~35.2	36~48	44~59.2	54~72	66~88	90~120	112~149	132~176
Input voltage	380V AC(±15%), Three phase							
Max Amps(RMS) [A]	46.5	62	76	92	113	157	180	214
Output Data								
Output Power, rated [kW]	22	30	37	45	55	75	93	110
Output Voltage, rated	380V AC(±15%), Three phase							
Max Amps(RMS) [A]	45	60	75	91	112	150	176	210
Output Frequency	0-50Hz/60Hz							
General Data								
Dimensions(H*W*D) [mm]	373*220*205	430*256*222		558*300*283		597*338*323		
Gross Weight [kg]	10.8	16.3		29.2		40.7		
Standard Warranty [month]	18							
Certificates	IEC/EN 61800-5-1, IEC/EN 61800-2:2004, IEC/EN 61800-3:2004, CE							

Note: 1. According to the light conditions, in different regions, the PV array power can be 1.2-1.6 times to the pump power.
2. Use the deep well pump or the output power wire for a long occasion, the controller needs to enlarge one step.

■ Configuration table

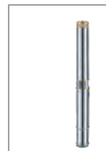
Pump Power (kW)	Controller Model	The Configuration And Number Of Solar Modules						Combiner Box
		Component Model	Cascade Number	Input Voltage(V)	Parallel Number	Total	Total Power(W)	
2.2	HL710-004GT4	SZYL-P100-18	30	564	1	30	3000	/
3.7	HL710-5R5GT4	SZYL-P250-30	20	634	1	20	5000	/
5.5	HL710-7R5GT4	SZYL-P200-30	19	571.9	2	38	7600	4 Into 1
7.5	HL710-011GT4	SZYL-P250-30	20	634	2	40	10000	4 Into 1
11	HL710-015GT4	SZYL-P250-30	20	634	3	60	15000	4 Into 1
Max input voltage 800V, MPPT voltage range: DC 500-750V								

SZYL-P100-18 × 30; total power3kW





HL710-004GT4



2.2kW deep-well pump

2kW deep-well pump

SZYL-P250-30 × 20; total power5kW





HL710-5R5GT4



4kW deep-well pump

3.7kW deep-well pump

SZYL-P200-30 × 19 × 2; total power7.6kW





HL710-7R5GT4



combiner box with 4 interfaces

5.5kW deep-well pump

5.5kW deep-well pump