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EM730-PV series solar pump inverter

Automated production and life

Shenzhen Sine Electric Co.,Ltd



Simple and easy to use



Powerful



Stable and reliable

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SINEE

Since SINEE establishment in 2003, Shenzhen Sine Electric Co., Ltd. (abbrevi- ation: SINEE) has focused on the research and development, produc- tion and sales of motor drive and control system products in the field of industrial automation. With the vision of "automated production and life", SINEE continues to Provide valuable products and services to users. The company was listed on the Shanghai Stock Exchange's Science and Technolo- gy Innovation Board in 2021 (stock code: 688395), and currently has R&D, production and service bases in Shenzhen, Wuhan, Suzhou and Wuxi.

Automated Production and Life

Company has key core technology platforms such as high-performance variable frequency vector control technology, high-precision servo drive technology, embedded computer control technology, and power electronics application technology. SINEE mainly provides frequency converters, integrat- ed special machines, servo system products and system solutions for mechan- ical equipment manufacturers and electronic control system integrators.



Vision
Automated production and life




Business
Motor drive and control system solution provider



Customers
Mechanical equipment manufacturers, electronic control system integrators, distributors



Competitiveness
Industry market solutions and customer customization



Business philosophy
Customer-centric, achieving simultaneous growth of own value and customer value

EM730-PV

series solar pump inverter

Supports single-phase/three-phase 200v~240v,
three-phase 340v~460v water pump;
DC input voltage range: 200~450V/250~900V
Standard power range of 0.4~110kW

Boost module

Models of 4KW and below are equipped with optional boost modules to meet low-voltage working requirements, save solar panels and reduce costs.

Automatic switching between photovoltaic and grid inputs

The entire series can switch freely between photovoltaic input and grid input, enabling 24 hours of maintenance-free operation.

Multiple protection measures

Water source water shortage protection, water pump dry-run/underload protection (Dry-run protection), reservoir full protection, light-weak sleep and wake-up/low voltage input protection, water pump stalled overload protection

Advanced MPPT algorithm

Solar tracking efficiency up to 99%

Support GPRS module

Supports optional GPRS module, enabling remote monitoring via computer or mobile APP



Technical Specifications---Naming Convention

EM730 - 4R0 - 2B -PVO

① ② ③ ④ ⑤ ⑥

Naming Rules	SN	Description	Details
Product serial number	①	Product family abbreviation	EM730: Electric Machinery 730
Adapted motor power	②	Power range	4R0:4.0KW
Voltage level	③	Voltage level	2: Single/three-phase 220V 3: Three-phase 380V
Optional accessories	④	Braking unit	B: Built-in braking unit : none
Professional code	⑤	Industry code	PV: photovoltaic water pump
Output type	⑥	Output type	O: Single-phase output : Three phase

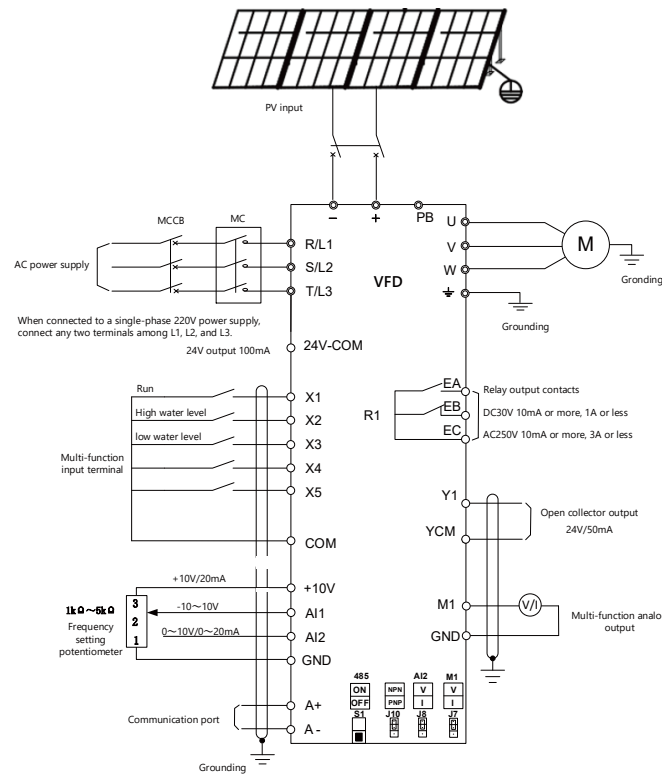
Technical Specifications---Product Specifications

Project	-2B-PV	-2B-PVO	-3B-PV	
AC input voltage (V)	200V-10%~240V+10%	200V-10%~240V+10%	340V-10%~460V+10%	
Maximum DC input voltage (V)	450	450	800	900
Starting voltage (V)	200	200	300	300
Minimum operating voltage (V)	200	200	250	250
Recommended DC input voltage range (V)	230~380	230~380	380~750	380~850
Recommended MPPT voltage (V)	330	330	550	550
Rated output voltage (V)	220 (3PH)	220 (1PH)	380 (3PH)	380 (3PH)
Output frequency(Hz)	0~400			
MPPT	99%			
Installation method	Wall-mounted, cabinet installation			
Environmental parameters	-10℃~+50℃. When the ambient temperature exceeds 50℃, derating is required. The derating is derated by 3% for every 1℃ increase. The maximum operating ambient temperature is 60℃.			
Altitude	When the altitude is less than 1,000 meters, when the altitude exceeds 1,000 meters, the usage will be derated by 1% for every 100 meters, and the maximum usage altitude is 3,000 meters.			
Cooling method	Fan cooling			
Protection level I	IP20			

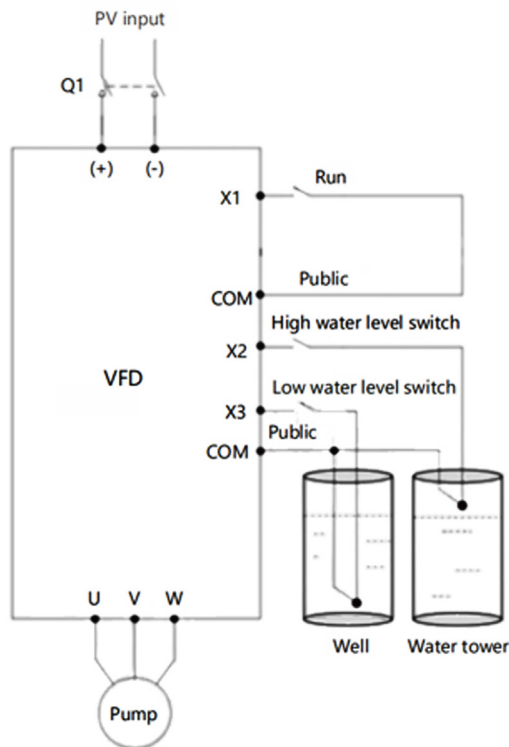
Technical Specifications---Product Model

Rated supply voltage	Model	Applicable motor power (kW)	Heavy load rated output current (A)
Single-phase output Single-phase/three-phase AC AC 200~240V input/ Single-phase DC 200~450V input	EM730-0R4-2B-PVO	0.4	4.8
	EM730-0R7-2B-PVO	0.75	8
	EM730-1R5-2B-PVO	1.5	10
	EM730-2R2-2B-PVO	2.2	17
	EM730-4R0-2B-PVO	4.0	32
Single-phase/three-phase AC 200~240V input/ Single-phase DC 200~450V input	EM730-0R4-2B-PV	0.4	2.8
	EM730-0R7-2B-PV	0.75	4.8
	EM730-1R5-2B-PV	1.5	8
	EM730-2R2-2B-PV	2.2	10
Three-phase AC 340~460V input/ Single-phase DC 250~900V input	EM730-0R7-3B-PV	0.75	2.5
	EM730-1R5-3B-PV	1.5	4.2
	EM730-2R2-3B-PV	2.2	5.6
	EM730-4R0-3B-PV	4.0	9.4
	EM730-5R5-3B-PV	5.5	13
	EM730-7R5-3B-PV	7.5	17
	EM730-011-3B-PV	11	25
	EM730-015-3B-PV	15	32
	EM730-018-3B-PV	18.5	38
	EM730-022-3B-PV	22	45
	EM730-030-3-PV	30	60
	EM730-037-3-PV	37	75
	EM730-045-3-PV	45	90
	EM730-055-3-PV	55	110
	EM730-075-3-PV	75	150
	EM730-090-3-PV	90	176
	EM730-110-3-PV	110	210

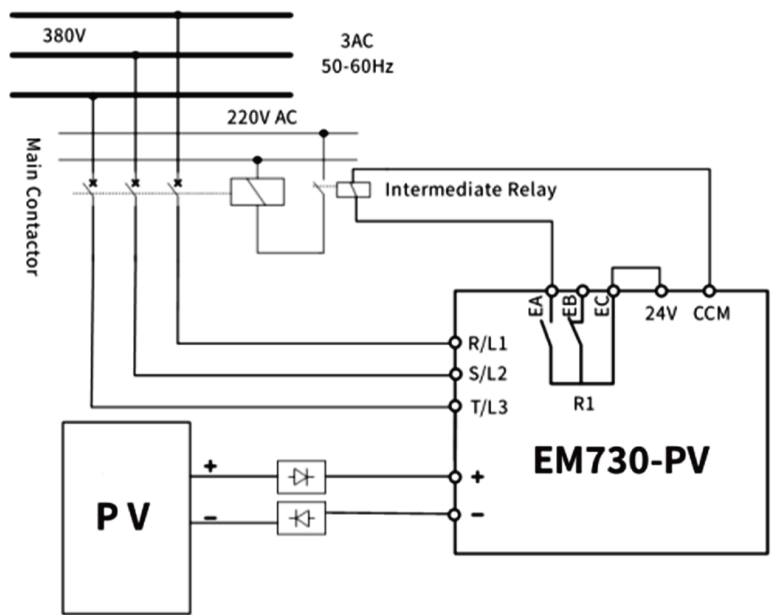
Control Wiring



(a)Main control Wiring

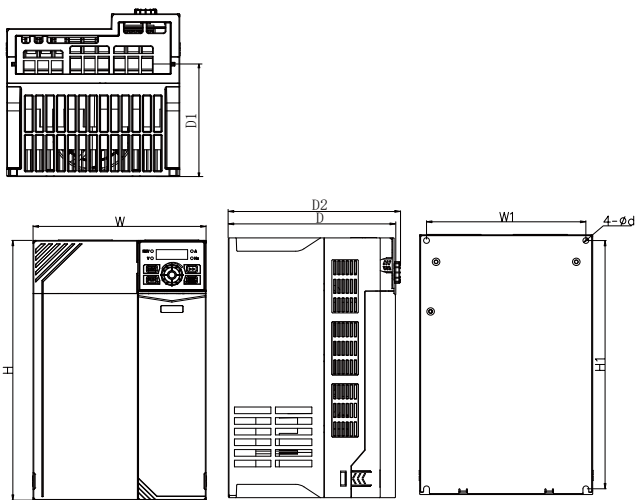


(b)control wiring

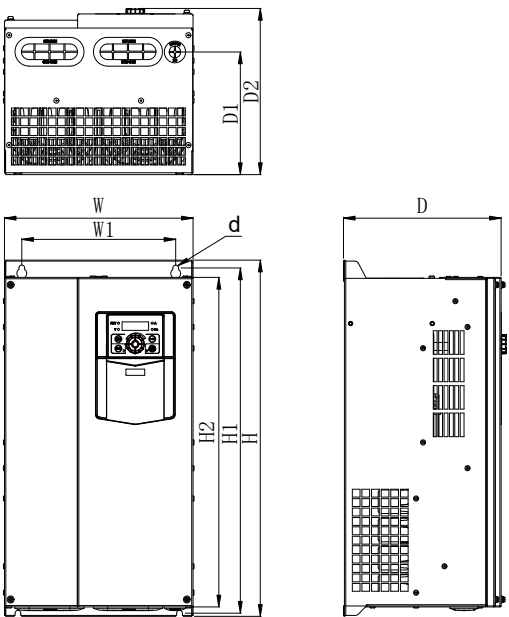


(c)AC/DC switch wiring

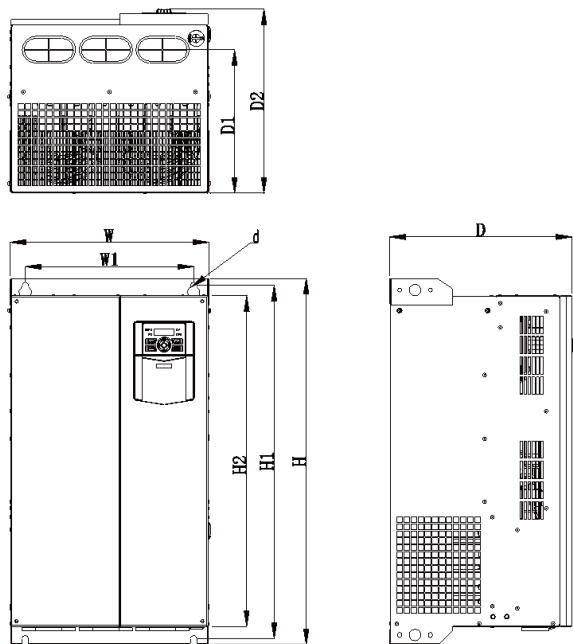
Technical Specifications---Product Appearance



a



b



c

Technical Specifications---Product Size

Specifications	W	W1	H	H1	H2	D	D1	D2	d	Appearance	
EM730-0R4-2B-PV	75	65	142	132		146	67	152	4.5	a	
EM730-0R7-2B-PV											
EM730-0R4-2B-PVO											
EM730-1R5-2B-PV	93	82	172	163		136	85	141	4.7		
EM730-0R7-2B-PVO											
EM730-1R5-2B-PVO											
EM730-2R2-2B-PV											
EM730-0R7-3B-PV	75	65	142	132		146	67	141	4.5		
EM730-1R5-3B-PV											
EM730-2R2-3B-PV	93	82	172	163		136	85	141	4.7		
EM730-4R0-3B-PV											
EM730-2R2-2B-PVO	109	98	207	196		154	103	160	5.5		
EM730-5R5-3B-PV											
EM730-7R5-3B-PV											
EM730-4R0-2B-PVO	136	125	250	240		169	115	174	5.5		
EM730-011-3B-PV											
EM730-015-3B-PV											
EM730-018-3B-PV	190	175	293	280		184	145	189	6.5		
EM730-022-3B-PV											
EM730-030-3-PV	245	200	454	400	420	205	156	212	7.5		b
EM730-030-3B-PV											
EM730-037-3-PV											
EM730-037-3B-PV											
EM730-045-3-PV	300	266	524	508	480	229	174	236	9		
EM730-055-3-PV											
EM730-075-3-PV	335	286	580	563	536	228	177	235	9		
EM730-090-3-PV	335	286	630	608	570	310	247	317	11	c	
EM730-110-3-PV											

Optional Accessories



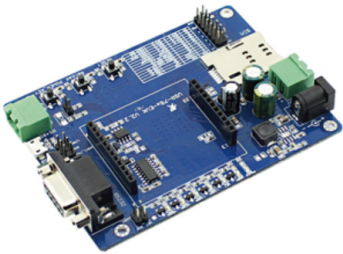
Boost module

- Models of 4KW and below are equipped with optional boost modules to meet low-voltage working requirements, save solar panels and reduce costs.



LCD keyboard

- LCD keyboard can display 3 lines of data
- Support parameter upload and download



GPRS module

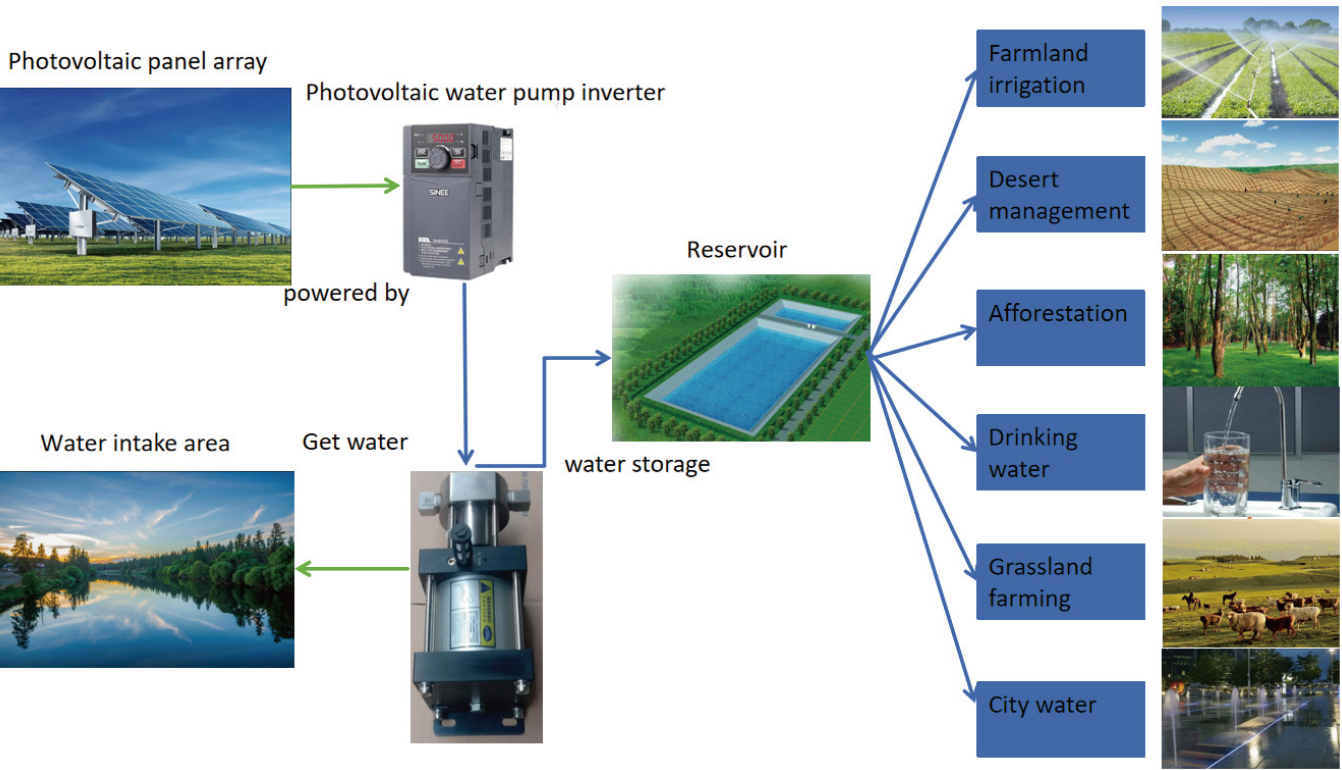
- Optional GPRS module, providing WEB for remote monitoring by customers



Output reactor

- It can increase the effective transmission distance of the frequency converter and is suitable for long cable water pump applications.

Working Principle



Application Scenarios



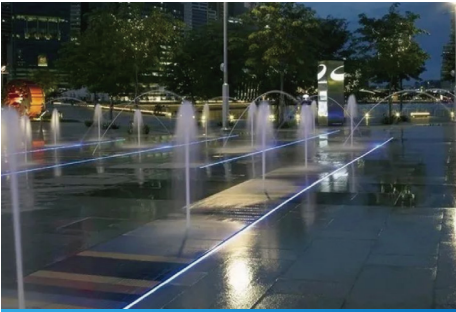
Farmland irrigation



Desert management



Grassland farming



City water supply



Afforestation



Drinking water

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