

ES560PV/ ES355PV

Solar Pumping Inverters

Creat a Better Life With Smart Drive

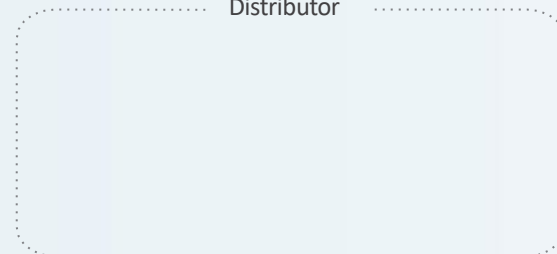


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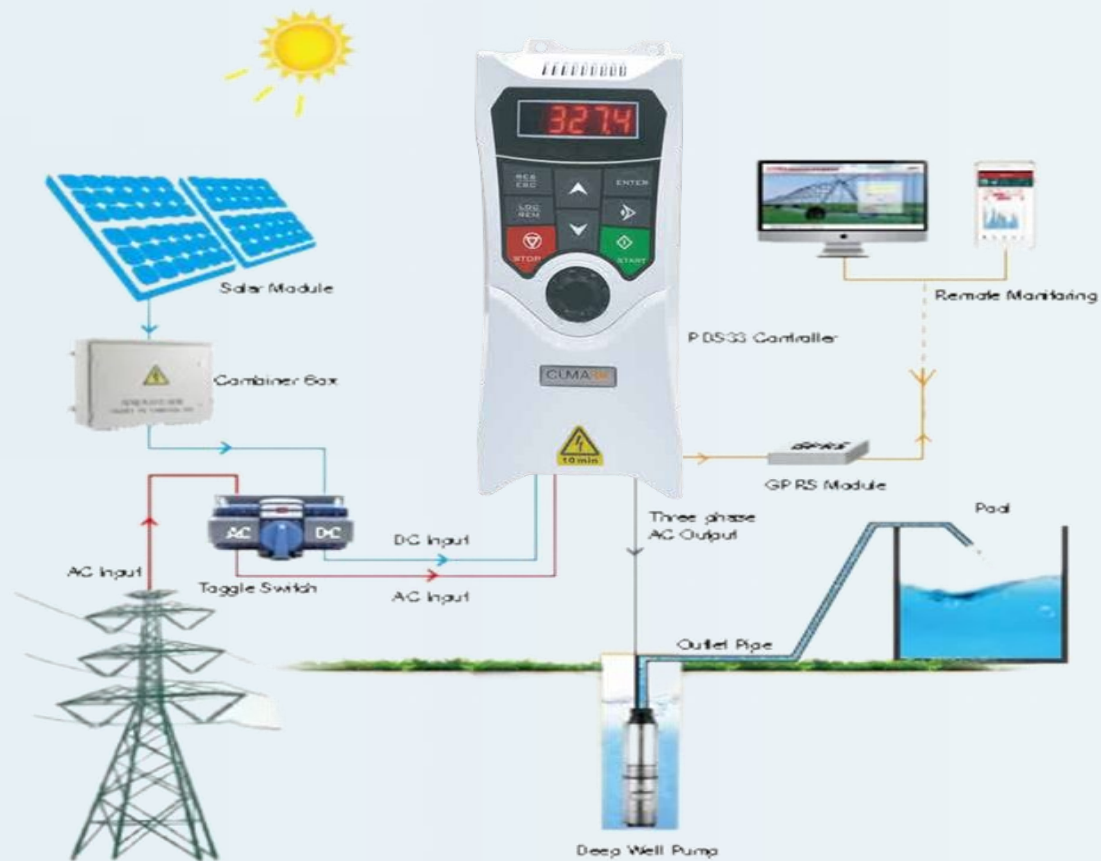
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Low-voltage Frequency Converter Series | High-voltage Frequency Converter Series
Explosion-proof Frequency Converter Series | Filter Series | System Solutions

Product Features



- 01
- Max solar power tracking efficiency reaches 99.9%.
- 02
- Support 220-380VAC solar pump, power range 0.4-560KW
- 03
- Hybrid power input, supporting Solar and Grid power for day and night work
- 04
- Multi meters display: Current, Voltage, KW/H, Water flow
- 05
- Multi protection: Pump over temperature, Pump dry run, Pump over load
- 06
- Protection class: IP40 F1-F3 Frame, IP20 F4-F9, IP54 for Panel

Product application



Type Designation Key



ES560 – 01 – 5K5G/ 7K5P – 3B – PV
① ② ③ ④ ⑤ ⑥

Number	Brief definition	Example
①	Serial code	For example: ES355,ES560
②	Frame code	Such as: F0 Stands for the code 0, B1 Stands for the code 01;B2 Stands for the code 02
③	Rated power class	For example: 5K5G/7K5P indicates 7.5kW, 0K4G indicates 0.4kW
④	Load type	G: Stands for heavy load, P: Stands for light load, None: Stands s for no overload required
⑤	Input voltage	1 Stands for single phase AC220V, 2 Stands for Three- phase AC220V, 3 Stands for Three- phase AC380V, 5 Stands for Three- phase AC480V, 11 Stands for single phase AC220V input and single phase AC220V output.
⑥	Break unit	B Stands for built-in break unit; None: No break unit.
⑦	Function code	PV Stands for solar pump function.

Product Specifications

Model	-11	-1	-2	-3
AC input voltage(V)	208(15%)~ 240(+10%)(1PH)		208(-15%)~ 240 (+10%)(3PH)	380(-15%)~ 460 (+10%)(3PH)
MAX.DC input voltage(V)	400	400	400	750
Start-up voltage (V)	200	200	200	300
Lowest working voltage(V)	150	150	150	250
Recommend DC input voltage range(V)	200~400	200~400	200~400	300~750
Recommend MPP voltage(V)	330	330	330	550
Rated output voltage(V)	220 (1PH)	220 (3PH)	220 (3PH)	380 (3PH)
Output frequency range(Hz)	0~800			
MPPT	99.90%			
Fault protection	More than 30 protection functions, such as: PV overvoltage,PV undervoltage, Lower sunshine, Dry running protection, Water level protection, overcurrent, Over temperature, phase loss, and overloa detc.			
Installation manner	all mounting/ Flange mounting			
Altitude	Below 1000m, If above 1000m, derate 1% for every additional 100m.			
Cooling manner	Fan cooling			
Protection level	IP20; IP54 (Cabinet)			

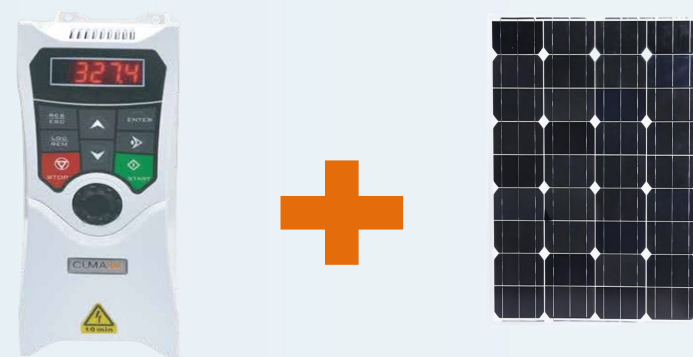
Model selection reference for low-voltage apparatus



Series	Model	Rated output power (kW)	Rated output current (A)	Frame code
ES355 Input 220V (1PH) & Output 220V(3PH)	ES355-B0-0K4G-1-PV	0.4KW	2.5	B0
	ES355-B0-0K7G-1-PV	0.75KW	4.5	B0
	ES355-B0-1K5G-1-PV	1.5KW	7	B0
	ES355-B0-2K2G-1-PV	2.2KW	9	B0
ES355 Input 380V (3PH) & Output 380V(3PH)	ES355-B0-0K7G-3-PV	0.75KW	2.5	B0
	ES355-B0-1K5G-3-PV	1.5KW	4	B0
	ES355-B0-2K2G-3-PV	2.2KW	5	B0
	ES355-B0-4K0G-3-PV	4.0KW	8	B0
ES560 Input 380V (3PH) & Output 380V(3PH)	ES560-01-4K0G/5K5P-3B-PV	5.5KW	14.5	B1
	ES560-01-5K5G/7K5P-3B-PV	7.5KW	17.5	B1
	ES560-01-7K5G/011P-3B-PV	11KW	25	B1
	ES560-02A-011G/015P-3B-PV	15KW	35	B2A
	ES560-02A-015G/018P-3B-PV	18KW	38.6	B2A
	ES560-03-018G/022P-3B-PV	22KW	46	B3

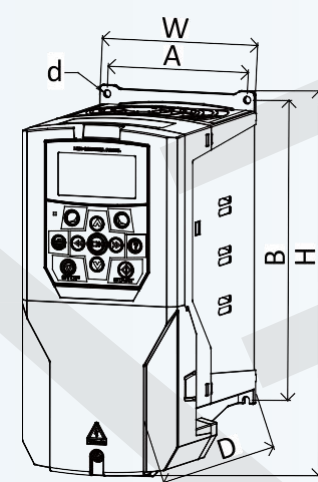
Series	Model	Rated output power (kW)	Rated output current (A)	Frame code
ES560 Input 380V (3PH) & Output 380V(3PH)	ES560-03-022G/030P-3B-PV	30KW	61	B3
	ES560-04-030G/037P-3-PV	37KW	75	B4
	ES560-04-037G/045P-3-PV	45KW	91	B4
	ES560-04-045G/055P-3-PV	55KW	115	B4
	ES560-05-055G/075P-3-PV	75KW	155	B5
	ES560-05-075G/090P-3-PV	90KW	178	B5
	ES560-05-090G/110P-3-PV	110KW	215	B5
	ES560-06-110G/132P-3-PV	132KW	261	B6
	ES560-06-132G/160P-3-PV	160KW	310	B6
	ES560-07-160G/200P-3-PV	185KW	387	B7
	ES560-07-200G/220P-3-PV	220KW	427	B7
	ES560-07-220G/250P-3-PV	250KW	450	B7
	ES560-08-250G/280P-3-PV	280KW	525	B8
	ES560-08-280G/315P-3-PV	315KW	600	B8
	ES560-08-315G/355P-3-PV	355KW	660	B8
	ES560-09-355G/400P-3-PV	400KW	720	B9
	ES560-09-400G/450P-3-PV	450KW	810	B9
	ES560-09-450G/500P-3-PV	500KW	870	B9

Recommended solar array configuration.



Model	Open-circuit voltage degree of solar module			
	37±1V		45±1V	
	Module power±5Wp	Modules per string * strings	Module power±5Wp	Modules per string * strings
ES355-B0-0K4G-1-PV	250	11*1	300	9*1
ES355-B0-0K7G-1-PV	250	11*1	300	9*1
ES355-B0-1K5G-1-PV	250	11*1	300	9*1
ES355-B0-2K2G-1-PV	250	11*1	300	9*1
ES355-B0-0K7G-3-PV	250	18*1	300	15*1
ES355-B0-1K5G-3-PV	250	18*1	300	15*1
ES355-B0-2K2G-3-PV	250	18*1	300	15*1
ES355-B0-4K0G-3-PV	250	20*1	300	16*1
ES560-01-4K0G/5K5P-3B-PV	250	18*2	300	15*2
ES560-01-5K5G/7K5P-3B-PV	250	18*2	300	15*2
ES560-02-7K5G/011P-3B-PV	250	18*3	300	15*3
ES560-02A-011G/015P-3B-PV	250	18*4	300	15*4
ES560-02A-015G/018P-3B-PV	250	18*5	300	15*5

Installation Dimensions



Hole type	Control keyboard mounting Hole shape and size	Control keyboard bracket mounting Hole shape
Diagram form	This hole fits directly into the control keyboard	This array of holes locks the control keyboard stand directly with four M3X10 screws

Frame Code	Installation Hole Width Spacing A (mm)	Installation Hole Height Spacing B (mm)	Installation Hole Size d (mm)	Appearance Width W (mm)	Appearance Height H (mm)	Appearance Thickness D (mm)	Net weight approximately/kg
B0	53	180	5.0	68	190	147	1.5
B1	110	222	6.0	122	276	172	3.7
B2A	160	296	6.0	175	336	192	5.1
B3	150	368	7.0	180	420	216	12.6
B4	200	479	6.5	225	495	221	22
B5	250	650	12	355	670	260	65

Remark: For the mechanical elements for the installation and the shapes of the industry dedicated derivative models not listed in the above table, please refer to the physical or contact our company's representatives.

Radiator
Heat dissipation design;
Long life span

DC terminal
Wide input voltage range to
optimize PV modules configurations.

Water level switch
Detect water levels for both well and tank;
Protect from over-pumped and burnout;
Automatic restart once water level recovered

LCD+LED display
User-Friendly.
System status display.
-Real-time voltage and frequency indication.
-Error type instruction to facilitate troubleshooting.

SMS remote control (optional)
Check real-time working status;
Re-set inverter default menu;
Command the system to start/stop

Comprehensive Motor Drive Technology
Support drive control of all motors (three-phase asynchronous, permanent magnet synchronous).
Support the speed and torque control modes.