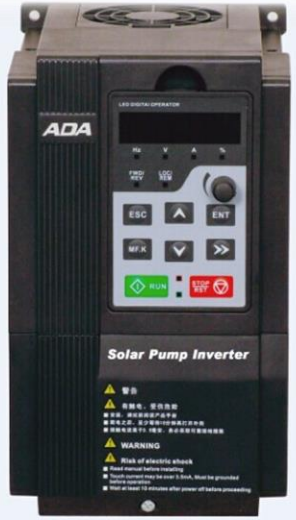
Solar Pumping Inverter
Product and Solution Introduction



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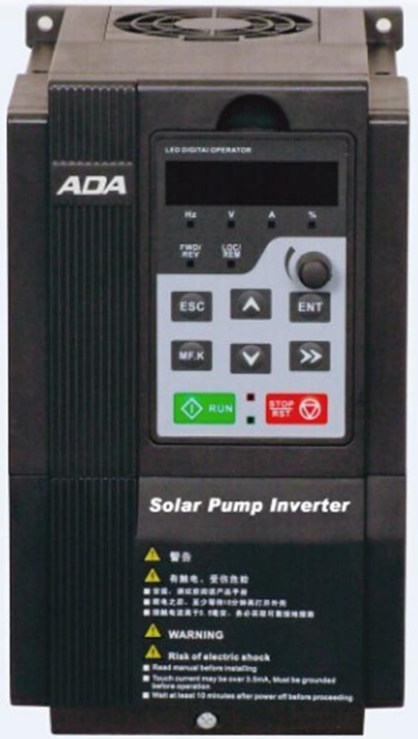
2015.03

WHY SOLAR WATER PUMP ?

Thought till today , many of the area in the world where land is very fertile but due to the unavailability of the electricity supply, irrigation is almost impossible or very costly . To overcome this problem of the people we are introducing our **solar pumping inverter** at very affordable cost with high reliability and efficiency.



Solar AC Water Pumping System Component

- **Solar Pumping Inverter**

MPPT in-built solar water pumping inverter . 0.4kW – 55kW

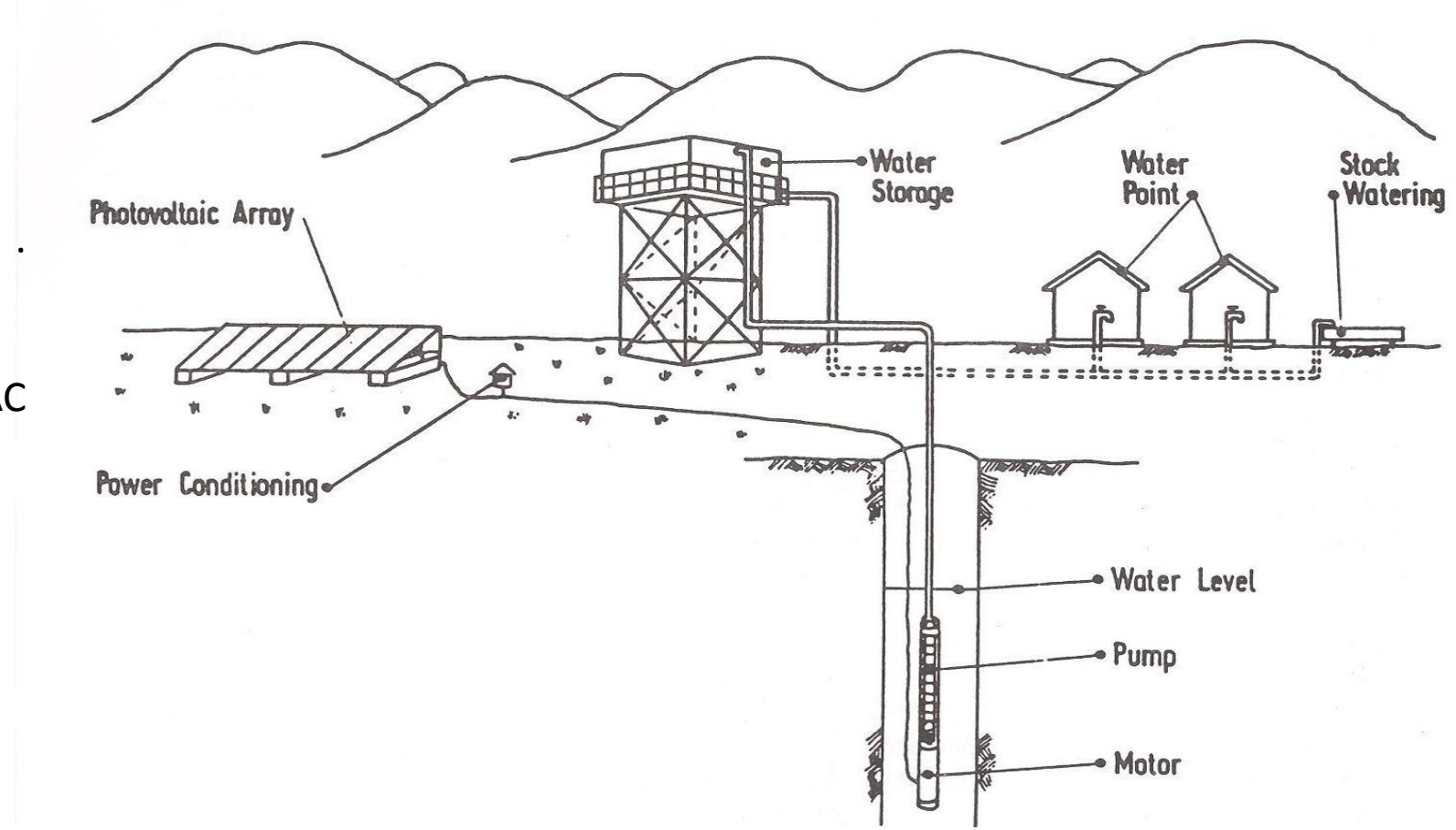
- **AC 3 Phase Motor & Pump**

conventional or submersible 3 phase AC water pump

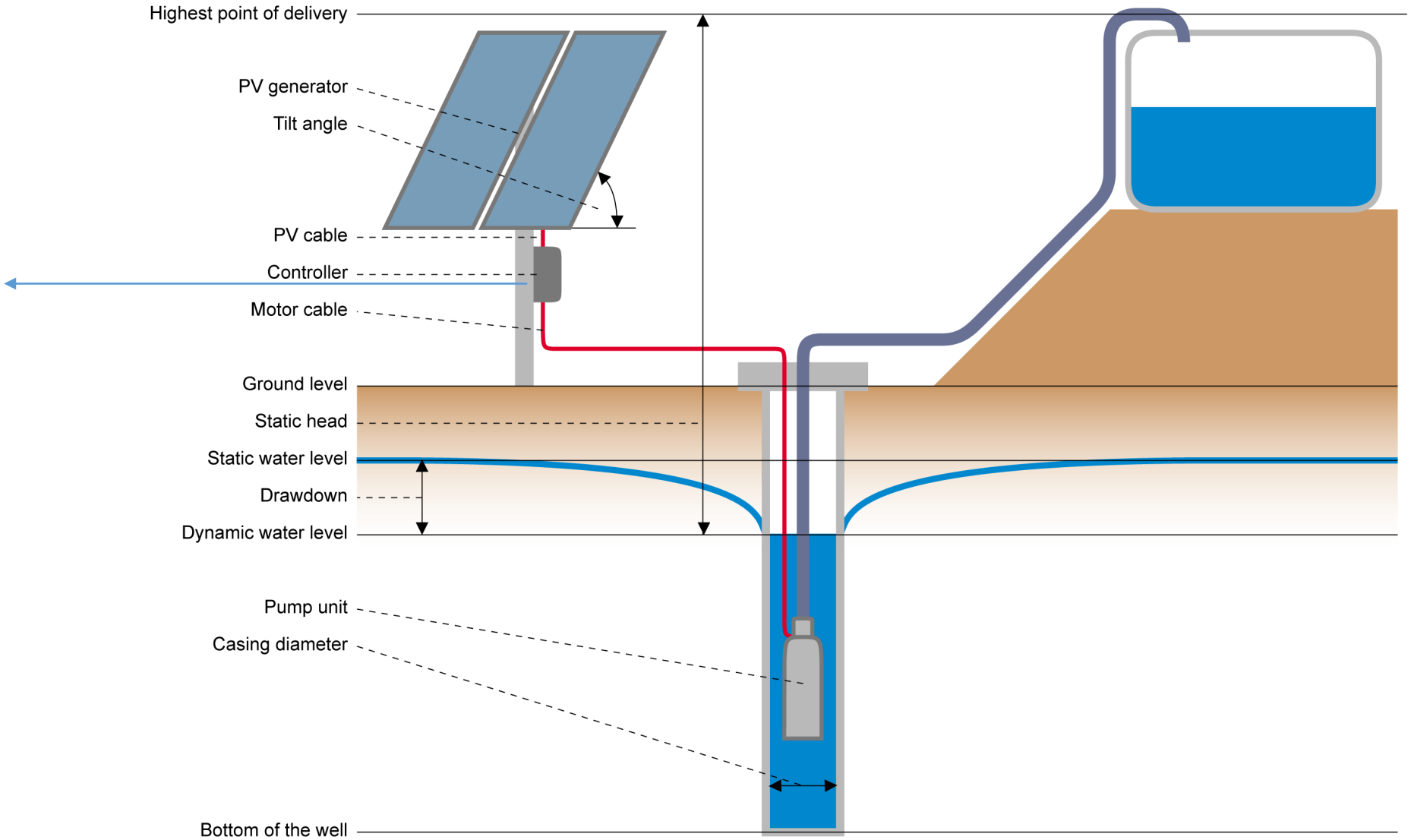
- **Solar PV Array**

Normal PV array

- **Mounting Structure**
- **Pipes And Cables**



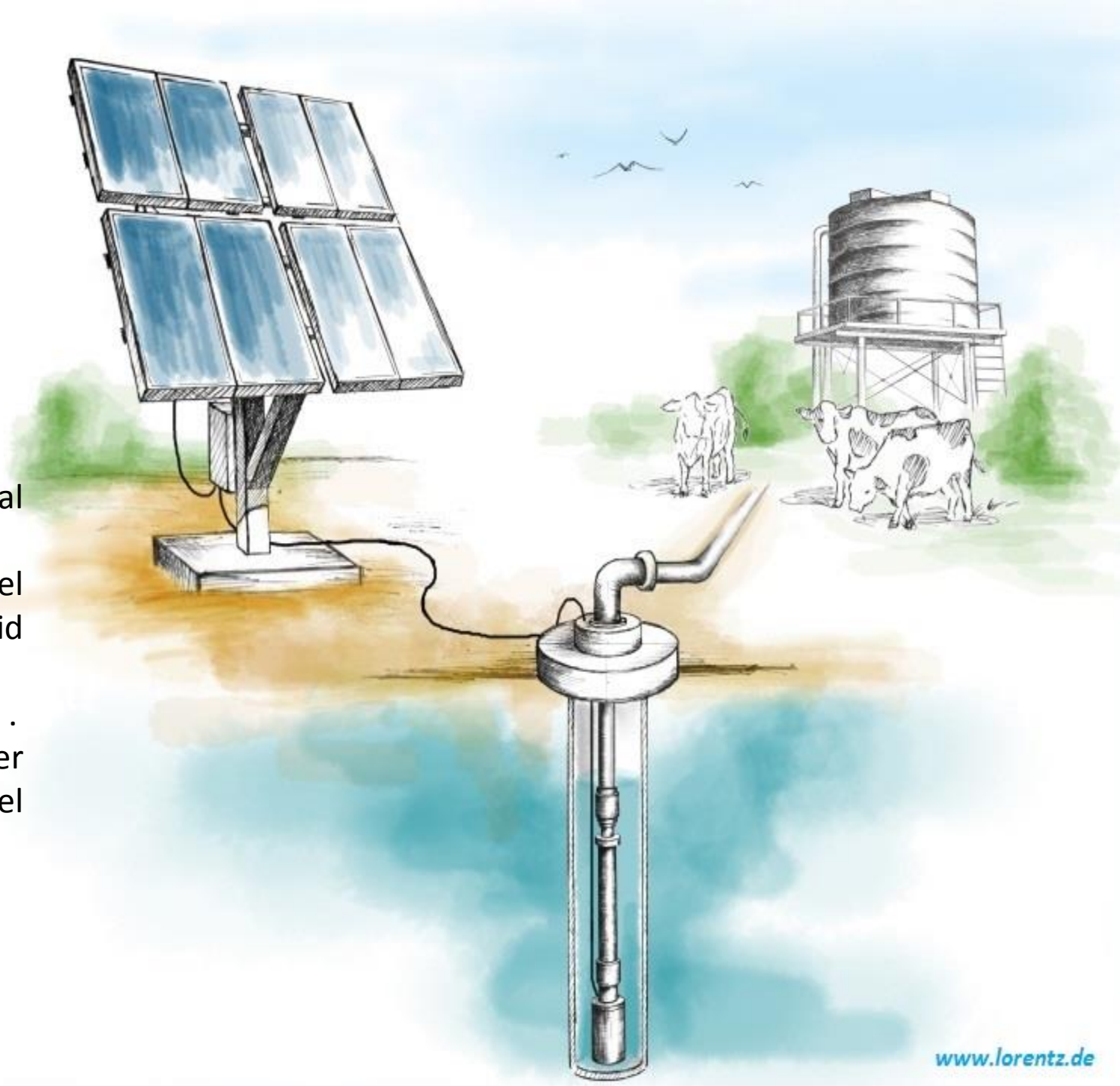
Simple Scheme of Solar Pump control solution



- **Solar Pumping Inverter**

Key Advantages :

- Efficiency up to 98%
- Real MPPT and V/F control technology
- Quick response , high reliability and stability
- Wide range of MPPT voltage .more optional advantages for PV module selection
- Complete motor protection function ,water level detection also can protect the pump to avoid overflow and dry pumping.
- auto waking function according to sun irrigation .
- RS485 communication and Optional power supply function is available like as Gird or diesel motor .



Product Selection Table

Three-Phase 380~415V output

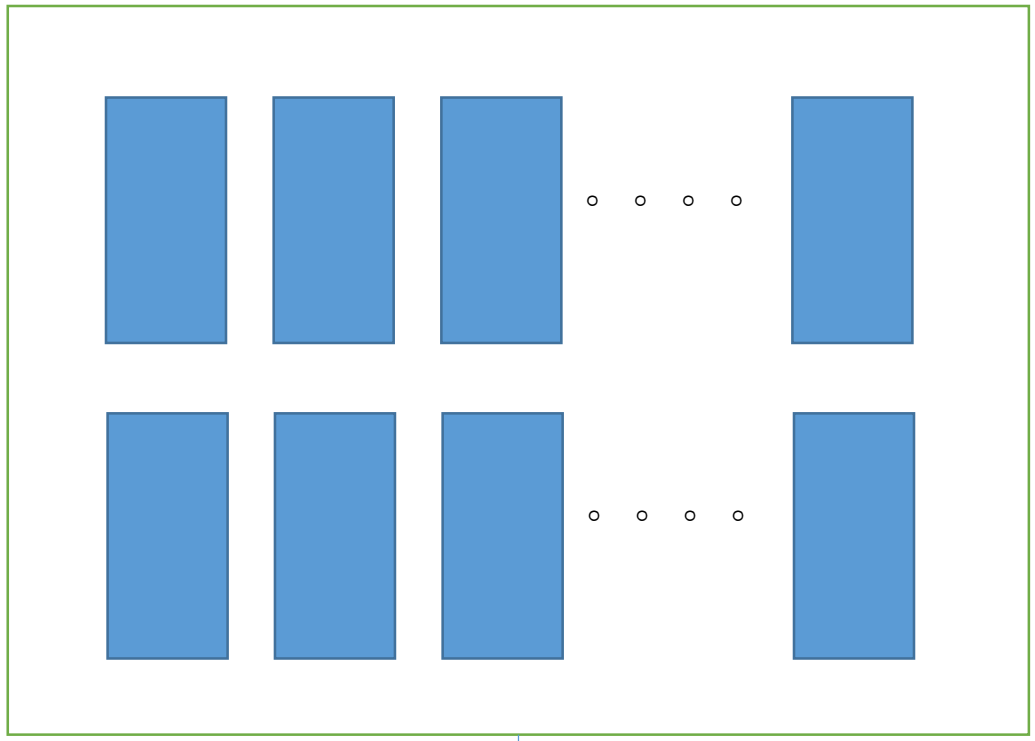
Model No.	Rated output power	Max. DC input current	Rated output current
	(kW)	(A)	(A)
SPI200-4T-0.7B	0.75	4.5	2.5
SPI200-4T-1.5B	1.5	7.5	4.2
SPI200-4T-2.2B	2.2	10	5.5
SPI200-4T-4.0B	4.0	18	9.5
SPI200-4T-5.5B	5.5	20	13
SPI200-4T-7.5B	7.5	30	17
SPI200-4T-011B	11	40	25
SPI200-4T-015B	15	50	32
SPI200-4T-018B	18.5	60	37
SPI200-4T-022B	22	80	45
SPI200-4T-030B	30	100	60

Solar Panels configuration

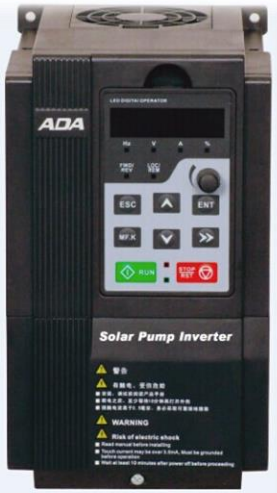
Item	Selection
Voltage (Vmpp)	Recommended value **SPI100**: 300～330VDC **SPI200**: 500～540VDC
Power	1.3 times of pump rated power
PCS / String	**SPI100**: 300～330V / module voltage **SPI200**: 500～540V/ module voltage
Total PCS	1.3 × pump rated power / module power

22kW solar powered AC Pump solution

PV Array for 29kw 600-680Vdc output



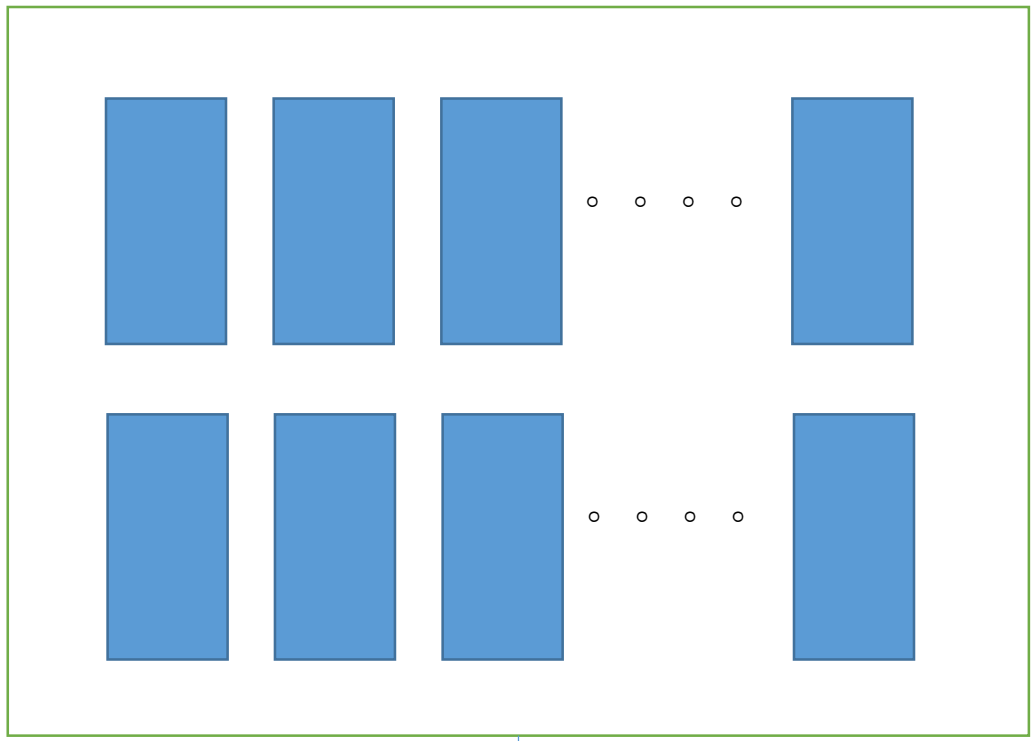
22kW Solar Pump Inverter
Input: 600~680Vdc
Output : 3PH 380V 22kW



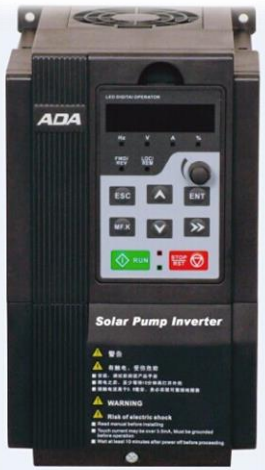
22kW 3PH 380V
Pump

37kW solar powered AC Pump solution

PV Array for 48kw 600-680Vdc output



37kW Solar Pump Inverter
Input: 600~680Vdc
Output : 3PH 380V 22kW



37kW 3PH 380V
Pump

How to select ? What is the best solution?

1. We have to check AC pump nameplate and confirm Voltage, Current and Power Rate (kW) .
2. According to AC pump nameplate showed information ,specially **Current(A)** we can confirm JFY pumping inverter model.
3. According to inverter then we can confirm PV array module selection . Normally we recommend to use 1.3 times rated array of inverter power rate

- please make a note : different company products the rating coefficient is different. JFY is 1.3

- also this formula is very useful for your simple calculation : **1HP inverter using 1kW PV module**.

Solar Pumping Inverter Solution configuration table

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For more information , please contact with us . We are here :

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Thank you !