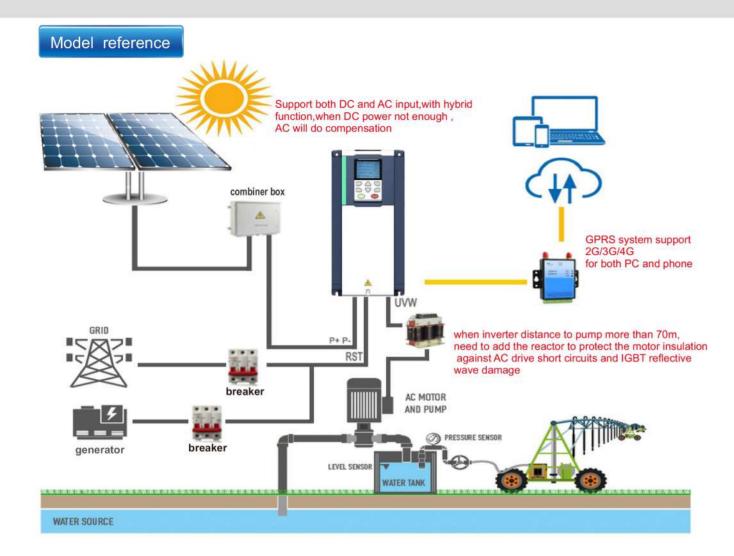
# VFD500-PV Solar Pumping Inverter



#### Electrical Specifications

Voltage	220V	380V			
Max input DC voltage	450V	800V			
Recommended MPPT voltage range	250~350VDC	400~600VDC			
Recommended input voltage	305V	530V			
MPPT efficiency	99%				
Input channel	2				
Rated output voltage	3-phase 220VAC	3-phase 380VAC			
Output frequency range	0~60Hz	2			
Max efficiency of the machine	97%				
Ambient temperature range	-10 °C~50 °C, derating if the temperature is above 40 °C				
Cooling method	Air cooling				
Protection degree	IP20				
Altitude	Below 1000m; above 1% for every additional 100m.				
Standard	CE				

### Model Range

Drive Model	Related Voltage	Max DC input voltage (V)	Rated output current (A)	Applicable water pump (KW)	SIZE	Inverter photo		
VFD500M-20T00150-PV	220V	800	7	1.5	SIZE A	85000 N		
VFD500M-20T00220-PV	220V	800	10.6	2.2	SIZE A	200		
VFD500M-40T00150-PV	380V	800	4.2	1.5	SIZE A			
VFD500M-40T00220-PV	380V	800	6	2.2	SIZE A			
VFD500-20T00150-PV	220V	800	7	1.5	SIZE A			
VFD500-20T00220-PV	220V	800	10.6	2.2	SIZE A			
VFD500-20T00400-PV	220V	800	17	4	SIZE A	5000		
VFD500-40T00150-PV	380V	800	4.2	1.5	SIZE A	249		
VFD500-40T00220-PV	380V	800	6	2.2	SIZE A	<u> </u>		
VFD500-40T00400-PV	380V	800	9.4	4	SIZE A			
VFD500-40T00550-PV	380V	800	13	5.5	SIZE B			
VFD500-40T00750-PV	380V	800	17	7.5	SIZE B	0		
VFD500-40T01100-PV	380V	800	25	11	SIZE C			
VFD500-40T01500-PV	380V	800	32	15	SIZE C			
VFD500-40T01850-PV	380V	800	38	18.5	SIZE D	#		
VFD500-40T02200-PV	380V	800	46	22	SIZE D			
VFD500-40T03000-PV	380V	800	60	30	SIZE E			
VFD500-40T03700-PV	380V	800	75	37	SIZE E	•		
VFD500-40T04500-PV	380V	800	96	45	SIZE F			
VFD500-40T05500-PV	380V	800	112	55	SIZE F			
VFD500-40T07500-PV	380V	800	150	75	SIZE G			
VFD500-40T09000-PV	380V	800	176	90	SIZE G			
VFD500-40T11000-PV	380V	800	210	110	SIZE H			
VFD500-40T13200-PV	380V	800	253	132	SIZE I	2055		
VFD500-40T16000-PV	380V	800	304	160	SIZE I			
VFD500-40T18500-PV	380V	800	340	185	SIZE J			
VFD500-40T20000-PV	380V	800	377	200	SIZE J			

### LED & LCD keypad





- 1,Standard inverter are with LED keypad,LCD keypad is optional.
- 2,LCD keypad can monitor 4 parameters at the same time. LED keypad show one parameter only.
- 3,LCD keypad with detailed parameter explain,no need use user manual ,more user friendly.
- 4,LCD keypad with copy and update and download function.widely used for government projects and big farms.

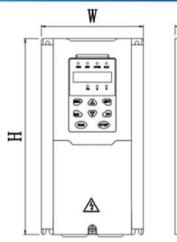


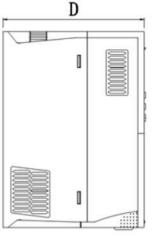


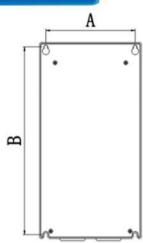
customized solar pump control panel

# VFD500-PV Solar Pumping Inverter

## Appearance and Mounting Hole Dimension







SIZE		Appearance and installation dimension mm							
	А	В	Н	H1	W	D	Фd	Mounting screws	
SIZE A	87	206.5	215	1	100	170	ø5.0	M4X16	
SIZE B	114	239.5	250	1	130	180	ø5.0	M4X16	
SIZE C	159	298	310	1	180	193	Ø6.0	M5X20	
SIZE D	165	350	365		210	205	Ø6.0	M5X20	
SIZE E	170	437	452.5		260	230	Ø7.0	M6X16	
SIZE F	250	535	555		310	275	Ø10.0	M8X20	
SIZE G	280	620	640		350	290	Ø10.0	M8X20	

### **Electrical Specifications**



Commercial/Agricultural irrigation system



Agricultural greenhouse water Landscape fountain system 5 supply system



Agricultural and animal husbandry water supply system



Barren hills governance system



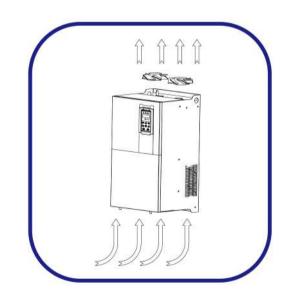
Solve water short problem

### Key features

- Maximizing power generation efficiency of solar modules with the use of advanced MPPT control technology and automatic MPPT voltage tracking
- Adjust water outflow of pumps quickly on basis of sunlight intensity change
- Automatic hibernation and wake up
  - (1) Hibernate at high water level and wake up at low water lever
  - (2) Hibernate at sunrise and sunset and wake up at strong sunlight
- Built-in C3 EMC filter and DSP technology and Infineon PIM design, with functions of light weak protection, dry run and low voltage, full water warning, overvoltage and overtemperature protection
- Advanced calculation for Pump flow and LCD monitoring display
- Automatic running without any commisioning in keypad control and GPRS monitoring option(as option)
- Dual supply capability with change over switch solar and grid compatible

### Independent duct design

- Independent air duct design, effectively preventing dust entering inverter, causing short-circuit and other faults and improving reliability
- Use bigger air volume and long life cooling fan effectively reduces the internal temperature rise of the inverter and ensures reliable and stable operation of inverter.



#### Perfect protection system

- Designed for 10 years of maintenance-free operation.
- Cooling fan, capacitors, relays, and IGBTs have been carefully selected and designed for a life expectancy up to ten years.
  - \* Assumes the drive is running continuously for 24 hours a day at 80% load with an ambient temperature of 40

