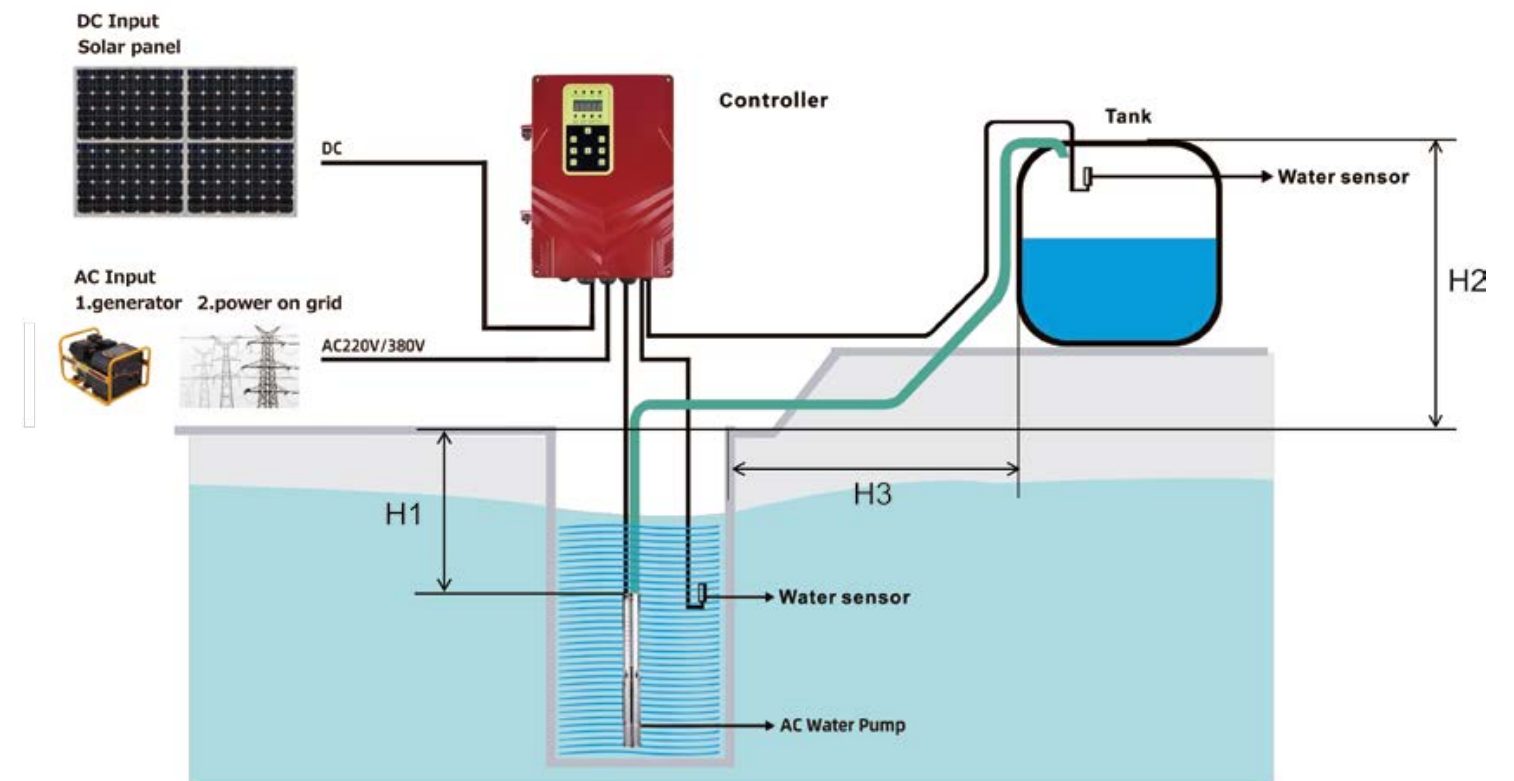


INGE MPPT AC Solar Pump Inverter [MLE-AC Series]



System Features

- Drive any type of single-phase and three-phase AC motor.
- Adopt advanced IGBT power module.
- High conversion efficiency, low temperature rise, low noise, long lifespan.
- Advanced MPPT technology, efficiency >99%.
- Waterproof grade IP65
- Good sealing, dust proof, insect proof, anti-corrosion to protect the inside PCB and its electronic components well.
- Easy to operate and maintain with LCD display.
- Small size, easy to transport and install, saving costs.
- Interface: RS485/GPRS.
- Wireless remote control by computer or mobile phone (requires additional hardware)



Series Specification

Model	Input AC(V)	Input DC(V)	Power(kw)	Current(A)	Motor(kw)
MLE-AC-220/311-0.75S	220V Single phase	160-460	0.75	5	0.75
MLE-AC-220/311-1.5S	220V Single phase	160-460	1.5	7	1.5
MLE-AC-220/311-2.2S	220V Single phase	160-460	2.2	12.5	2.2
MLE-AC-380/537-1.5T	380V Three phase	350-750	1.5	4.5	1.5
MLE-AC-380/537-2.2T	380V Three phase	350-750	2.2	5.6	2.2
MLE-AC-380/537-4T	380V Three phase	350-750	4	10.5	4
MLE-AC-380/537-5.5T	380V Three phase	350-750	5.5	14	5.5
MLE-AC-380/537-7.5T	380V Three phase	350-750	7.5	19	7.5
MLE-AC-380/537-11T	380V Three phase	350-750	11	26	11
MLE-AC-380/537-15T	380V Three phase	350-750	15	33	15
MLE-AC-380/537-18.5T	380V Three phase	350-750	18.5	40	18.5
MLE-AC-380/537-22T	380V Three phase	350-750	22	46	22

Technical Notes

Project		Project Description	
Input	AC Voltage	Single phase:AC220V± 15%	Three phase:AC380V± 15%
	DC Voltage	DC60 ~ 460V	DC150 ~ 760V
Output	Voltage	0 ~ Rated Input AC Voltage	
	Frequency	0Hz ~ 1000Hz	
	Overload capacity	150% rated current for 1 minute, 180% rated current for 2 seconds	
Main control performance	Control mode	V/F, Speed sensorless vector control	
	Modulation	Space vector PWM modulation	
	Motor type	Asynchronous motor, synchronous motor, single-phase motor (please consult the manufacturer when using)	
	Starting torque	150% rated torque at 0.5Hz	
	Speed range	1:100 (Without speed sensor)	
	Frequency accuracy	Digital setting: maximum frequency ± 0.01%; Analog setting: maximum frequency ± 1%	
	Frequency resolution	Digital setting: 0.1Hz; Analog setting:maximum frequency 1%	
	Acceleration and deceleration curve	Straight line/S curve acceleration/deceleration	
	Limiting current	Automatically limit the current during operation to prevent frequent overcurrent fault tripping	
	Instantaneous power failure	Support instantaneous no stop and automatic frequency reduction	
Run Function	Command source	Keyboard given, terminal given, communication given	
	Source of setting	Digital given, analog given, multi-speed, communication given	
	PID	Support main given+PID	
Operation keyboard	Nixie tube display	Display output frequency, output current, output voltage, bus voltage, display value 1, display value 2, current alarm, current fault	
	External keyboard	support	
Protective function		Overcurrent protection, overvoltage protection, undervoltage protection, overheat protection, overload protection, phase loss protection, earth leakage protection, etc.	
Environment	Place of use	Indoor, no direct sunlight, no dust, corrosive gas, flammable gas, oil mist, water vapor, dripping water or salt,etc.	
	Altitude	For derating above 1000 meters,derate 10% for increase every 1000 meters	
	Ambient temperature	-10°C ~ +40°C (Ambient temperature is 40°C ~ 50°C,please use derating)	
	Humidity	5% ~ 95%RH,no condensation	
	Storage temperature	-40°C ~ + 70°C	
	Vibration	Less than 5.9m/s ² (0.6g)	