

KLST Three Phase Solar Pump Off-grid Inverter



For 0.75kW ~ 11kW



For 15kW ~ 30kW



Feature

- Designed to converter DC from Solar panel into AC to drive the pump.
- Inbuild MPPT + VFD (Variable Frequency Drive)
- Big LCD graphic display for Pump/ Solar Panel status and setting . 4 keys for operation
- Support AC input when it is rainy day
- Auto control motor based on water lever
- Pump protection when over-current, over-voltage and over-load
- IP65 index for higher temperature and high humidity
- Reliable for terrible environment, operate temperature -20°C ~ 60+°C

Technical information for 0.75~11kW

Parameter/Model	KLST13-K75	KLST13-1K5	KLST13-2K2	KLST13-3K	KLST13-4K	KLST13-5K5	KLST13-7K5	KLST13-11K
Inverter rated power	0.8KW	1.7kW	2.5kW	3.6kW	5kW	6.6kW	7.7kW	12kW
Motor / Pump rated power	0.75KW	1.5KW	2.2kW	3kW	4kW	5.5kW	7.5kW	11kW

Input

DC	Voltage (Vdc)	Rated: DC 700 ± 50V; Control MPPT Range: DC650~540V, Max. voltage input < 850V							
	Current (Adc)	3	4.6	6.6	10.2	10.8	15.6	20,4	28.8
AC	Voltage (Vac)	Rated: three phase 380V~480V; 60/50Hz Range: three phase 323V~528V; Voltage unbalance rate: %3 ; Allowed frequency fluctuation: ± %5							
	Current (Aac)	2.8	4.2	6.1	9.4	9.9	14.3	18.7	26.4

Output

Voltage range (Vac)	0-380	0-380	0-380	0-380	0-380	0-380	0-380	0-380
Rated Current (A)	2.5	3.8	5.5	8.5	9	13	17	24
Overload	1 minute for %150 overload; 10 seconds for %180 overload; 0.5 second for %200 overload							
Frequency (Hz)	0-300	0-300	0-300	0-300	0-300	0-300	0-300	0-300
Phase	0-300	0-300	Three	Three	Three	Three	Three	Three

Protection

Anti dry -running								
Water level control								

Mechanical

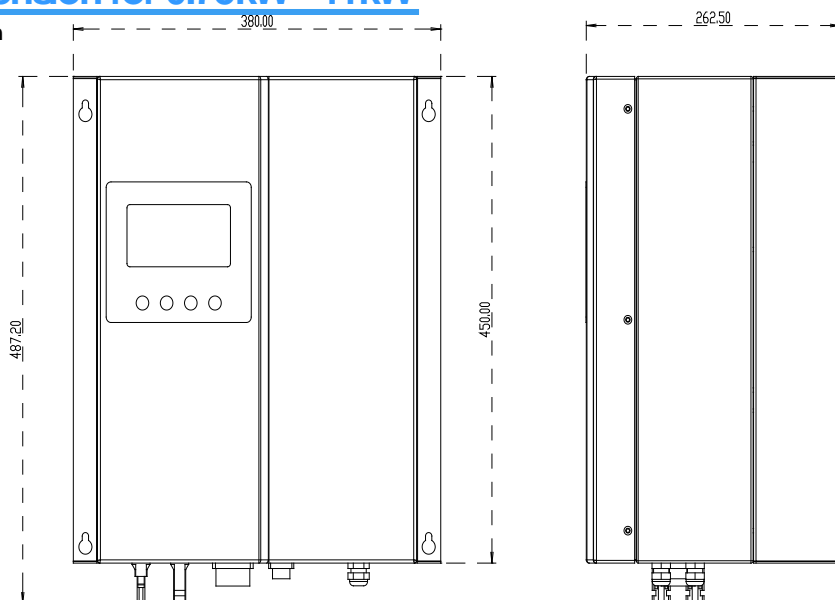
Dimension(mm)	487.2 x380 x262.5	487.2 x380 x262.5	487.2 x380 x262.5	487.2 x380 x262.5	487.2 x380 x262.5	487.2 x380 x262.5	487.2 x380 x262.5	487.2 x380 x262.5
HMI	5 inch	5 inch	5 inch	5 inch	5 inch	5 inch	5 inch	5 inch
IP Degree	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Operate temperature	-20℃ ~+60℃	-20℃ ~+60℃	-20℃ ~+60℃	-20℃ ~+60℃	-20℃ ~+60℃	-20℃ ~+60℃	-20℃ ~+60℃	-20℃ ~+60℃
cooling -down method	forced -air -cooling							

Basic Function

Monitoring								
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Dimension for 0.75kW ~11kW

Unit: mm



Technical information for 15kW ~30kW

Parameter/Model	KLST13 -15K	KLST13-18K5	KLST13-22K	KLST13-30K
Inverter rated power	17kW	21kW	23kW	33kW
Motor / Pump rated power	15kW	18.5KW	22kW	30kW

Input

DC	Voltage (Vdc)	Rated: DC 700 \pm 50V; Control MPPT Range: DC650~540V, Max. voltage input < 850V		
	Current (Adc)	36	46.8	54
AC	Voltage (Vac)	Rated: three phase 380V~480V; 60/50Hz Range: three phase 323V~528V; Voltage unbalance rate: %3 ; Allowed frequency fluctuation: \pm %5		
	Current (Aac)	33	42.9	49.5

Output

Voltage range (Vac)	0-380	0-380	0-380	0-380
Rated Current (A)	30.0	39.0	45.0	60
Overload	1 mintue for %150 overload; 10 seconds for %180 overload; 0.5 second for %200 overload			
Frequency (Hz)	0-300	0-300	0-300	0-300
Phase	Three	Three	Three	Three

Protection

Anti dry -running				
Water level control				

Mechanical

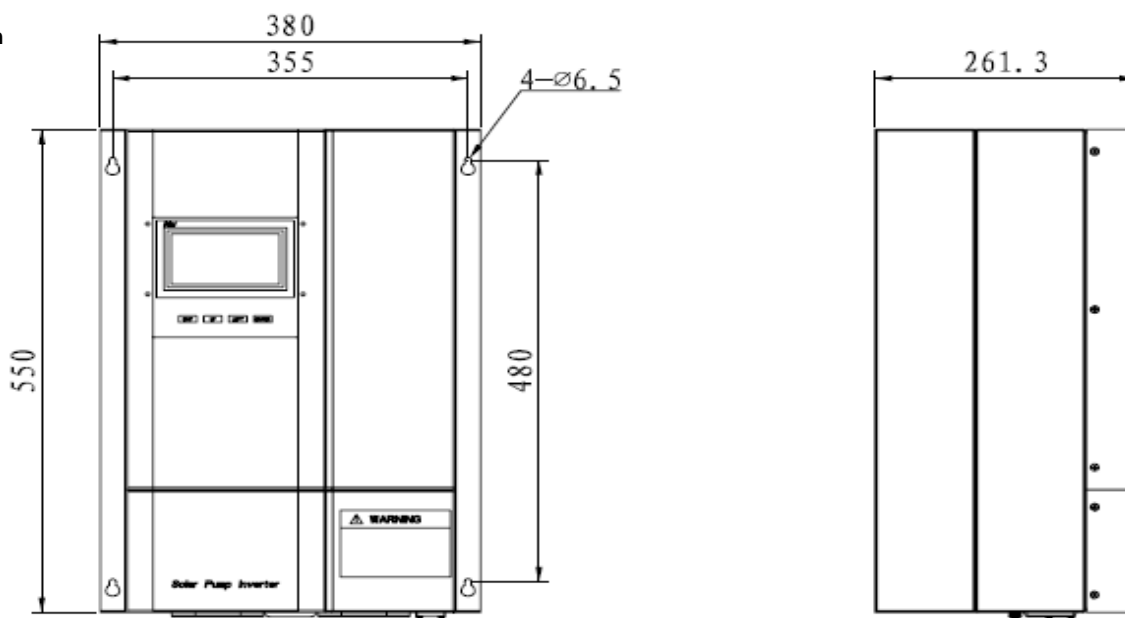
Dimension(mm)	550x380x261.3	550x380x261.3	550x380x261.3	550x380x261.3
HMI	5 inch	5 inch	5 inch	5 inch
IP Degree	IP65	IP65	IP65	IP65
Operate temperature	-20℃ ~+60℃	-20℃ ~+60℃	-20℃ ~+60℃	-20℃ ~+60℃
cooling -down method	forced -air -cooling			

Basic Function

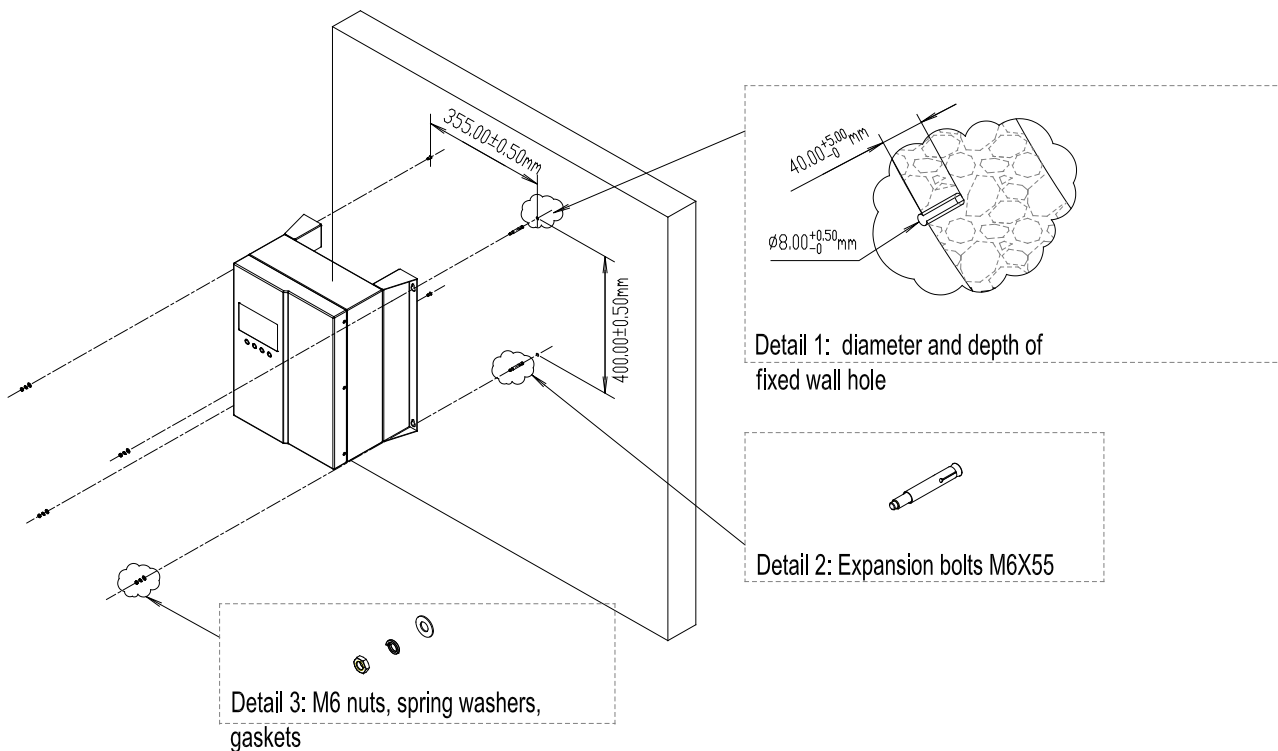
Monitoring				
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Dimension for 15kW ~30kW

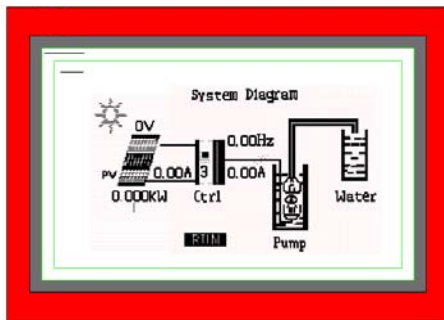
Unit: mm



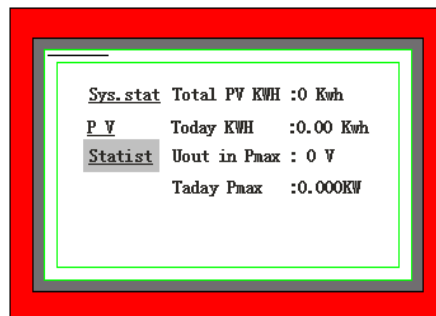
Installation



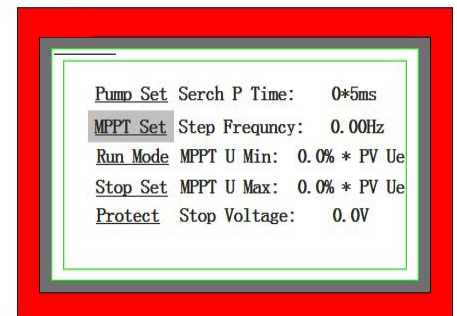
5 inch HMI design



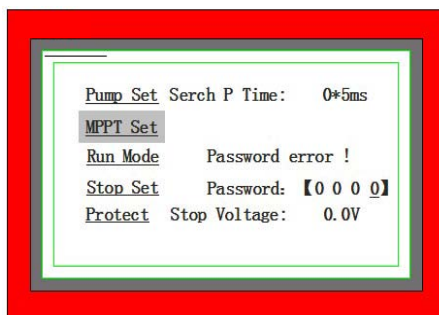
Main Interface for System Structure



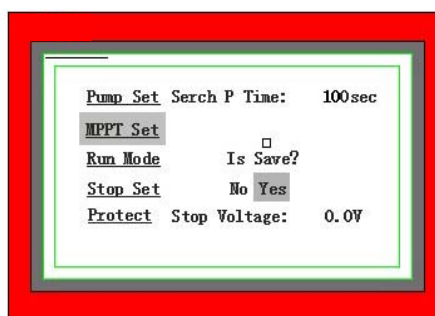
Monitoring Interface



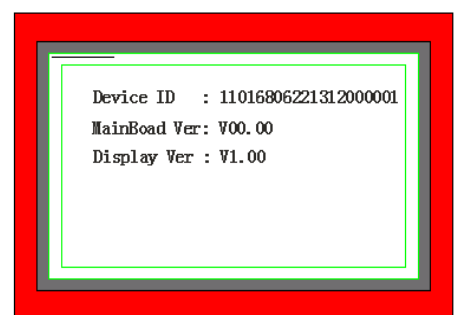
Setting Interface



Password Protection

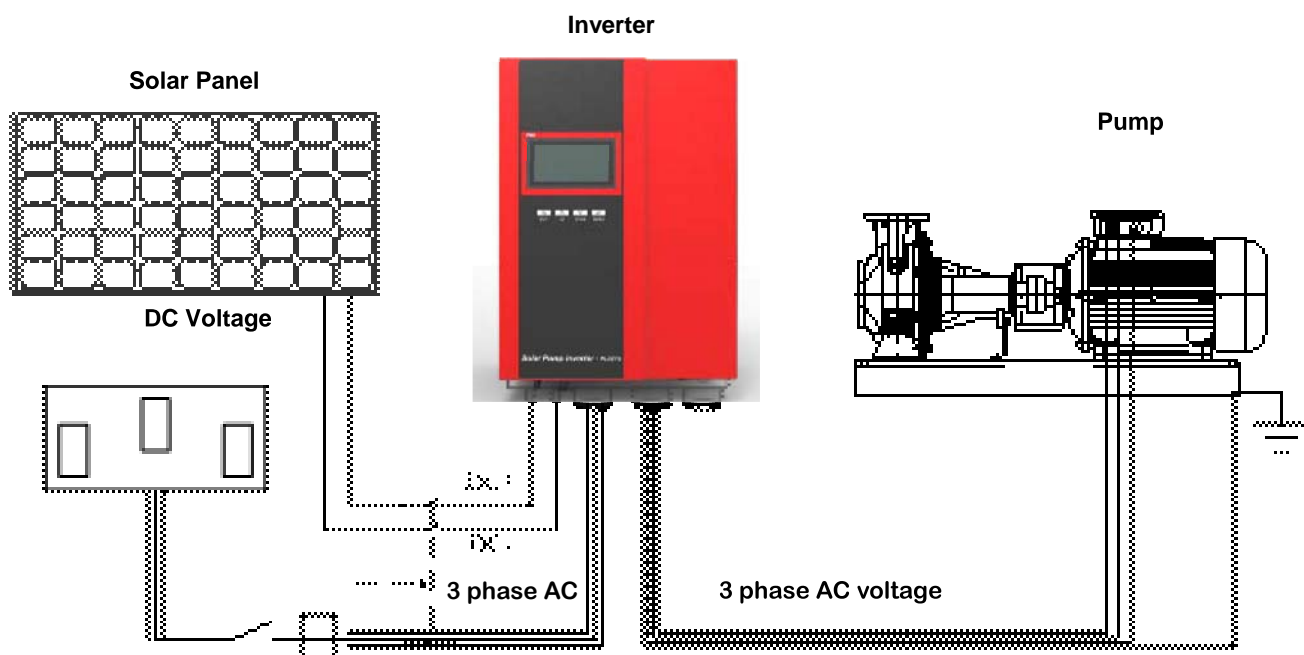


Pump Parameter Setting



Device Information

Typical Connection



Application

Irrigation



Fountain



Swimming Pool



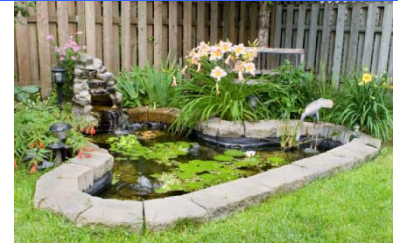
Water in desert



Desalination System



Fishing Pond



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