



©Features

- Pure sine wave solar inverter(on/off grid)
- Inverter running without battery
- Output power factor 1.0
- High PV input voltage range(90~500VDC)
- WIFI&GPRS available for IOS and Android
- Built-in anti-dusk kit for harsh enviroment
- Built-in 160A(for 7.2KW/8.2KW)/180A(for 10.2KW)MPPT solar charge
- Smart battery charge design to optimize battery life
- One-click restoration to factory settings
- Dual outputs
- Built-in lithium battery automatic activation
- Touch button

©RGB Lingthing for different working mode



Red-Battery Mode

Blue-Utility Mode

Purple-PV Mode

RGB automatically switches with the working mode of the inverter:

Battery mode: Red

Utility mode: Blue

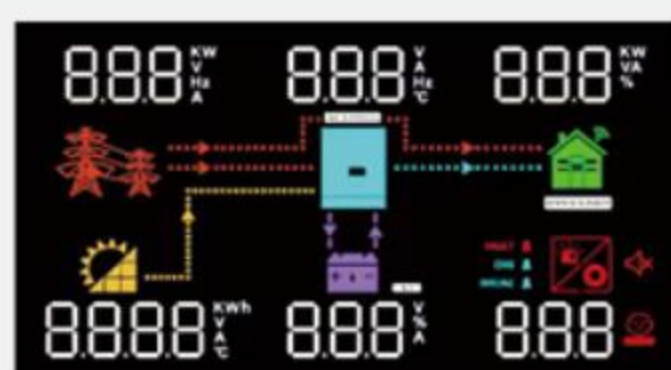
PV mode: Purple

☑ off grid

☑ hybrid

☑ on grid

©Overview



LCD DISPLAY



WIFI-APP

©Product Data Sheet

MODEL ACT-MPS-V MAX	7.2KW	8.2KW	10.2KW
Phase	1-phase		
Maximum PV Input Power	8200W	8200W	10200W
Rated Output Power	7200W/7200VA	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	160A	160A
GRID-TIE OPERATION			
PV INPUT(DC)			
Norminal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	90VDC~450VDC		
Number Of MPPT Trachers/Maximum Input Current	1/27A		
GRID OUTPUT(AC)			
Norminal Output Voltage	220/230/240VAC		
Output Voltage Range	195.5~253VAC		
Norminal Output Current	31.3A	35.6A	44.3A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(DC/AC)	98%		
TWO LOAD OUTPUT POWER(V2.0)			
Full Load	7200W	8200W	10200W
Maximum Main Load	7200W	8200W	10200W
Maximum Second Load(Battery mode)	2400W	2733W	3400W
Main Load Cut Off Voltage	44VDC	44VDC	44VDC
Main Load Return Voltage	54VDC	54VDC	54VDC
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC / 180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	40A	40A	50A
Norminal Operating Frequency	50/60Hz		
Surge Power	14400W	16400W	20400W
PV INPUT(DC)			
Maximum DC Voltage	500VDC		
MPPT Voltage Range	90VDC~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
BATTERY MODE OUTPUT(AC)			
Norminal Output Voltage	48VDC	48VDC	48VDC
Output Wavefrom	Pure sinewave		
Efficiency(DC to AC)	94%		
BATTERY & CHARGER			
Norminal DC Voltage	48VDC	48VDC	48VDC
Maximum Solar Charging Current	160A	160A	160A
Maximum AC Charging Current	140A	140A	160A
PHYSICAL			
Dimension,D X W X H	537*390*130		
Net Weight(kgs)	14.2	14.2	14.5