



## Features

- Pure sine wave solar inverter (on/ off grid)
- Output power factor 1.0
- WIFI&GPRS available for IOS and Android
- Inverter can run without battery
- One-key restoration to factory settings
- Built-in lithium battery automatic activation
- AC output voltage 120VAC
- Built-in 120A MPPT solar charger: max 4200W (for 3.6KW)
- High PV input voltage range (60~500VDC)
- Built-in anti-dusk kit for harsh environment
- Smart battery charge design to optimize battery life
- Dual output

## Data Sheet

Model	MLV-3K6
Phase	1- phase
Max. PV Input Power	4200W
Rated Output Power	3600W/3600VA(3000/3150/3300)
Max. Solar Charging Current	120A
<b>GRID-TIE OPERATION</b>	
<b>PV Input (DC)</b>	
Nominal DC Voltage / Max. DC Voltage	360/500VDC
Start-up Voltage / Initial Feeding Voltage	60VDC/90VDC
MPPT Voltage Range	60~450VDC
Number of MPPT Trachers / Max. Input Current	1/18A
<b>Grid Output (AC)</b>	
Nominal Output Voltage	120VAC
Output Voltage Range	90 ~ 150VAC
Nominal Output Current	30A
Power Factor	> 0.99
<b>Efficiency</b>	
Max. Conversion Efficiency (DC/AC)	98%
<b>Two Load Output Power</b>	
Full Load	3600W
Max. Main Load	3600W
Max. Second Load (Battery Mode)	1200W
Main Load Cut Off Voltage	26VDC
Main Load Return Voltage	27VDC
<b>OFF-GRID OPERATION</b>	
<b>AC Input</b>	
AC Start-up Voltage / Auto Restart Voltage	110VAC/ 120VAC
Acceptable Input Voltage Range	90~150VAC ± 2%
Frequency Range	59~61 ± 1Hz
Max. AC Input Current	40A
<b>PV Input (DC)</b>	
Nominal DC Voltage / Max. DC Voltage	360/ 500VDC
MPPT Voltage Range	60~450VDC
Number of MPPT Trachers / Maximum Input Current	1/18A
<b>Battery Mode Output (AC)</b>	
Nominal Output Voltage	120VAC (100/105/115V settable)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	94%
<b>Battery &amp; Charger</b>	
Nominal DC Voltage	24VDC
Max. Solar Charging Current	120A
Max. AC Charging Current	100A
Max. Solar + AC Charging Current	120A
<b>HYBRID OPERATION</b>	
<b>PV Input (DC)</b>	
Nominal DC Voltage / Max. DC Voltage	360/500VDC
Start-up Voltage / Initial Feeding Voltage	90VDC/ 120VDC
MPPT Voltage Range	60~450VDC
Max. Input Current	1/18A
<b>Grid Output (AC)</b>	
Nominal Output Voltage	120VAC (100/ 105/ 115V settable)
Output Voltage Range	90~150VAC
Nominal Output Current	30A
<b>AC Input</b>	
AC Start-up Voltage / Auto Restart Voltage	120~140VAC/ 100VAC
Acceptable Input Voltage Range	90~150VAC
Max. AC Input Current	40A
Max. AC Charging Current	120A
<b>GENERAL</b>	
<b>Physical</b>	
Dimension (DxWxH) mm	420*350*110
Carton Dimension (DxWxH) mm	500*415*180
Net Weight (KGS)	8.0
Gross Weight (KGS)	10.0
<b>Interface</b>	
Communication Port	RS232/ RS485/ WIFI/ GPRS/ LITHIUM Battery
<b>Environment</b>	
Humidity	5% to 95% relative humidity (Non-condensing)
Operating Temperature	- 10°C ~ 50°C
<b>Standard</b>	
Compliance Safety	CE