



## 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
- 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                                      | MLV-6K2                      |
|---|--|------------------------------|
| Phase   | 1- phase                                     |                              |
| Max. PV Input Power                             | 4200W  | 6000W                        |
| Rated Output Power                              | 3600W/3600VA(3000/3150/3300)                 | 6200W/6200VA(5300/5500/5700) |
| 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  | 1/22A                        |
| <b>Grid Output (AC)</b>                         |  |                              |
| Nominal Output Voltage                          | 120VAC (100/ 105/ 115V settable)             |                              |
| Output Voltage Range                            | 90 ~ 150VAC                                  |                              |
| Nominal Output Current                          | 30A  | 51.7A                        |
| Power Factor                                    | > 0.99                                       |                              |
| <b>Efficiency</b>                               |  |                              |
| Max. Conversion Efficiency (DC/AC)              | 98%  |                              |
| <b>Two Load Output Power</b>                    |  |                              |
| Full Load                                       | 3600W  | 6200W                        |
| Max. Main Load                                  | 3600W  | 6200W                        |
| Max. Second Load (Battery Mode)                 | 1200W  | 2067W                        |
| Main Load Cut Off Voltage                       | 26VDC  | 52VDC                        |
| Main Load Return Voltage                        | 27VDC  | 54VDC                        |
| <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                                 | 49~51 ± 1Hz                                  |                              |
| Max. AC Input Current                           | 40A  | 80A                          |
| <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  | 1/22A                        |
| <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  | 48VDC                        |
| 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  | 1/22A                        |
| <b>Grid Output (AC)</b>                         |  |                              |
| Nominal Output Voltage                          | 120VAC (100/ 105/ 115V settable)             |                              |
| Output Voltage Range                            | 90~150VAC                                    |                              |
| Nominal Output Current                          | 30A  | 51.6A                        |
| <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  | 80A                          |
| Max. AC Charging Current                        | 120A   |                              |
| <b>GENERAL</b>                                  |  |                              |
| <b>Physical</b>                                 |  |                              |
| Dimension (DxWxH) mm                            | 420*350*110                                  |                              |
| Net Weight (KGS)                                | 9.0  | 9.5                          |
| Gross Weight (KGS)                              | 10.0   | 11.5                         |
| <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                                |                              |