

# Hybrid Solar Inverter

## PULSE K1-(8-12K)

- Integrated Single Phase / Split Phase
- Built-in Dual MPPT
- 200% PV Input Power Configuration
- 27A PV Input Current, Fit for High-power Modules
- Up to 9 Units Parallel Operation
- Independent Generator Port, Auto Start & Stop
- Dual AC Output, Intelligent Control
- Max Inversion Efficiency 96.5%
- 3-Year Full Machine Warranty



| Modle                                                                                                                                                                                                                  | PULSE K1-8K                                                                                                                 | PULSE K1-10K                       | PULSE K1-12K                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|
| AC Output（Off Grid）                                                                                                                                                                                                    |                                                                                                                             |                                    |                                     |
| Rated Power                                                                                                                                                                                                            | 8kW/8kVA                                                                                                                    | 10kW/10kVA                         | 12kW/12kVA                          |
| Surge Power                                                                                                                                                                                                            | 16kW/16kVA                                                                                                                  | 20kW/20kVA                         | 24kW/24kVA                          |
| AC Output Voltage                                                                                                                                                                                                      | Single Phase: 100V/110V/120V/127V 、 Split Phase: 120V/240V<br>2/3 Phase: 127V/220V 、 Parallel Mode Three-Phase: 120V/208V   |                                    |                                     |
| Rated AC Output Frequency                                                                                                                                                                                              | 50Hz / 60Hz (Auto detection)                                                                                                |                                    |                                     |
| Max Inverter Efficiency                                                                                                                                                                                                | 96.5%（PV/AC）                                                                                                                |                                    |                                     |
| Transfer Time                                                                                                                                                                                                          | <10ms@Single, <20ms @ Parallel                                                                                              |                                    |                                     |
| Output Waveform                                                                                                                                                                                                        | Pure Sine Wave                                                                                                              |                                    |                                     |
| No-Load Loss                                                                                                                                                                                                           | ≤75W@Rate Voltage                                                                                                           |                                    |                                     |
| AC Output（On Grid）                                                                                                                                                                                                     |                                                                                                                             |                                    |                                     |
| Rated Power                                                                                                                                                                                                            | 8kW/8kVA                                                                                                                    | 10kW/10kVA                         | 12kW/12kVA                          |
| Power Factor                                                                                                                                                                                                           | 0.8 leading to 0.8 lagging                                                                                                  |                                    |                                     |
| Rated Voltage                                                                                                                                                                                                          | Single Phase: 100V/110V/120V/127V 、 Split Phase: 120V/240V 、<br>2/3 Phase: 127V/220V 、 Parallel Mode Three-Phase: 120V/208V |                                    |                                     |
| Rated Grid Frequency                                                                                                                                                                                                   | 50Hz/60Hz（Auto detection）                                                                                                   |                                    |                                     |
| Max Output Current                                                                                                                                                                                                     | 34A(Split Phase) 67A(Single Phase)                                                                                          | 42A(Split Phase) 84A(Single Phase) | 50A(Split Phase) 100A(Single Phase) |
| PV Input                                                                                                                                                                                                               |                                                                                                                             |                                    |                                     |
| Number Of MPPT Trackers                                                                                                                                                                                                | 2                                                                                                                           |                                    |                                     |
| Max PV Input power                                                                                                                                                                                                     | 8000W*2                                                                                                                     | 10000W*2                           | 12000W*2                            |
| Max PV Array Open Circuit Voltage                                                                                                                                                                                      | 550Vdc                                                                                                                      |                                    |                                     |
| Max PV Input Current                                                                                                                                                                                                   | 27A*2                                                                                                                       |                                    |                                     |
| Startup Voltage                                                                                                                                                                                                        | 75Vdc                                                                                                                       |                                    |                                     |
| MPPT Voltage Range                                                                                                                                                                                                     | 65~500Vdc                                                                                                                   |                                    |                                     |
| MPP tracking efficiency                                                                                                                                                                                                | 99.9%                                                                                                                       |                                    |                                     |
| Battery                                                                                                                                                                                                                |                                                                                                                             |                                    |                                     |
| Compatible Battery Types                                                                                                                                                                                               | Lead-acid、Lithium battery                                                                                                   |                                    |                                     |
| Rated Battery Voltage                                                                                                                                                                                                  | 48V/51.2V                                                                                                                   |                                    |                                     |
| Battery Voltage Range                                                                                                                                                                                                  | 38.4Vdc~60Vdc                                                                                                               |                                    |                                     |
| Cold Start Battery Voltage                                                                                                                                                                                             | 46Vdc                                                                                                                       |                                    |                                     |
| Max Solar Charging Current                                                                                                                                                                                             | 190A                                                                                                                        | 210A                               | 210A                                |
| Max AC Charging Current                                                                                                                                                                                                | 190A                                                                                                                        | 210A                               | 250A                                |
| Max Charging Current (PV+AC)                                                                                                                                                                                           | 190A                                                                                                                        | 210A                               | 250A                                |
| Activate The Lithium Battery Function                                                                                                                                                                                  | PV/AC                                                                                                                       |                                    |                                     |
| Protection                                                                                                                                                                                                             |                                                                                                                             |                                    |                                     |
| Over Current/Voltage Protection; Anti-islanding Protection; AC Short-Circuit Protection; Leakage Current Protection; Grid Monitoring; Ground Fault Monitoring; DC Surge Protection OVC II; AC Surge Protection OVC III |                                                                                                                             |                                    |                                     |
| Mechanical Specifications                                                                                                                                                                                              |                                                                                                                             |                                    |                                     |
| Inverter Dimensions                                                                                                                                                                                                    | 541*518.7*141.2mm                                                                                                           |                                    |                                     |
| Net Weight                                                                                                                                                                                                             | 19.3kg                                                                                                                      | 19.4kg                             | 19.6kg                              |
| Gross Weight                                                                                                                                                                                                           | 22.3kg                                                                                                                      | 22.4kg                             | 22.6kg                              |
| Environment                                                                                                                                                                                                            |                                                                                                                             |                                    |                                     |
| Protection Degree                                                                                                                                                                                                      | IP20                                                                                                                        |                                    |                                     |
| Humidity                                                                                                                                                                                                               | 5%~95% non-condensing                                                                                                       |                                    |                                     |
| Altitude                                                                                                                                                                                                               | <2000 Meters                                                                                                                |                                    |                                     |
| Operating Temperature                                                                                                                                                                                                  | -10℃~50℃                                                                                                                    |                                    |                                     |
| Storage Temperature                                                                                                                                                                                                    | -15℃~60℃                                                                                                                    |                                    |                                     |
| Noise                                                                                                                                                                                                                  | <75dB                                                                                                                       |                                    |                                     |
| Certificate                                                                                                                                                                                                            | UL 1741、FCC                                                                                                                 |                                    |                                     |