UrVOLT

Creating Your Reliable VOLT



HYBRID DUO[™] PV INVERTER

Best solution for Photovoltaic, Storage in Split-phase System

FEATURES

- All-in-One
- 120/240V AC System
- 120/120/240V AC Output
- Higher Power. PF=1
- 96.5% High Efficiency
- Standalone/Grid Interactive
- 60A Charging Current

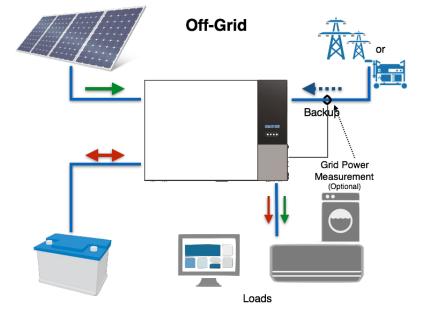
- 200% Overload
- 2 Independent MPPT
- Net-metering & Self-using
- VRLA & LiFePO₄ Batteries
- High Temp. & Humidity
- Cloud Monitoring (Optional)
- Grid Power Measurement

Introduction

Hybrid DUO[™], the most innovative inverter for 120/240V split phase AC system, is an all-in-one product including MPPT, PV charger, AC charger and inverter. It makes your system simple, intuitive and working seamlessly. With its grid-tie function, you can either sell surplus PV to grid (Net-metering) or reserve it locally (Self-Using); with pure sinusoidal AC output, you can continue using critical devices during blackout; with optional external power measurement, you can read power, utilize PV power in local power network and prevent surplus PV to grid. Hybrid DUO[™] is the best solution for grid-interactive and off-grid, residential and commercial,

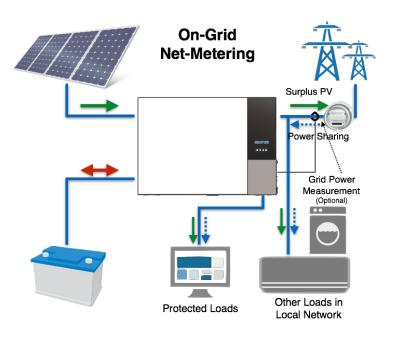
solar and backup applications in split-phase AC system.

Operation Modes



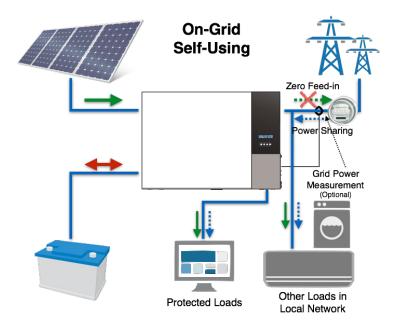
Operations

- AC grid or genset acts as the backup source
- Inverter supplies loads from PV and/or batteries
- Surplus PV power is used to charge batteries
- Loads are switched to grid automatically when insufficient PV+Battery



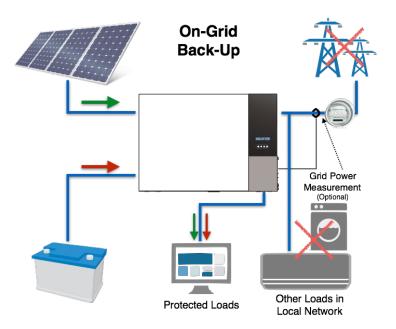
Operations

- Inverter output is physically connected to grid AC
- Inverter supplies all loads from PV and/or batteries and/or grid AC
- Surplus PV power is used to charge batteries and/or feeding grid



Operations

- Inverter output is physically connected to grid AC
- Inverter supplies all loads from PV and/or batteries and/or grid AC
- Surplus PV power is used to charge batteries
- Zero feeding to grid



Operations

- Inverter supplies Protected loads from PV and/or batteries
- Protected loads are powered, other loads are not

Specifications

| Model | Unit | PH-6000N-U |
|--|----------------|---|
| Input (PV) | | |
| Max. PV Power | W _P | 6000 |
| MPPT Range ¹ | V | 150 ~ 550 |
| Max. DC Voltage | V | 600 |
| Max. Current | А | 10 x 2 |
| MPP Tracker Number | | 2 |
| Input (AC) | | |
| Nominal Voltage, Frequency | V/Hz | 120/240, 50/60 |
| Maximum Current | А | 25 |
| Battery | | |
| Nominal Voltage | V | 48 |
| Max. Charging Current | А | 60 |
| Output (AC, Grid-Tie) | | |
| Nominal Voltage, Frequency | V/Hz | 120/240, 50/60 |
| Nominal Power (Grid-tie) | W/VA | 5000/5000 |
| Output (AC, Backup) | | |
| Nominal Power | W/VA | 4000/5000 |
| Over-Load Capacity | % | 200 |
| Waveform | | Pure Sinusoidal |
| Regulation (Linear Load) | % | ± 2 |
| General | | |
| Temperature Range ² | °C | -20 ~ 55 |
| Environment | | IP 20, Indoor |
| Cooling | | Forced Air-Cooling |
| Humidity | % | 0~95, non-condensing |
| Battery Type | | VRLA or LiFePO ₄ |
| Interface & Mechanical | | |
| Display | | 16 x 2 Text Display |
| Ccommunication Interface | | RS485, USB and External Current Transformer |
| Dimension (W / H / D) | mm | 580/408/168 |
| Weight | kg | 24 |
| Compliant Regulation | | |
| Safety | | UL1741 |
| EMC | | FCC Part 15 (Class A) |
| Grid Monitoring | | IEEE 1547 |
| Note: 1. The input power may be reduced for V_{PV} <265V 2. AC power may need to be reduced for T>40°C 3. Specifications are subject to change without prior notice. | | |

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