

REVO residential Energy Storage  
inverters

# American ESS split- phase inverter

battery voltage: 48V

## Product features:

### Safe & reliable

- Passed UL 1741:2021, IEEE 1547.1, UL1699B, South Africa NRS097-2-1:2017 test certification;

### Friendly & flexible

- Support multi-machine parallel connection;
- Support multi-machine parallel mode sharing a battery pack;  
Single-machine load capacity 100A;

### Economical & efficient

- Support parallel SOC equalization control and parallel current sharing control;
- Using split-phase topology and eliminating the transformers, to make the system efficiency higher;
- Support the diesel generator and the grid access at the same time;



## Technical specification:

| Technical specification             | R5KLNA  | R6KLNA  | R8KLNA  | R10KLNA |
|-------------------------------------|---|---------|---------|---------|
| <b>Input (PV)</b>                   |   |         |         |         |
| Max. power(kW)                      | 7.5   | 9       | 12      | 13      |
| Max. DC voltage (V)                 | 500   |         |         |         |
| MPPT voltage range(V)               | 120~500   |         |         |         |
| Max.Input current of single MPPT(A) | 12  |         |         |         |
| MPPT tracker/strings                | 4/1   |         |         |         |
| <b>AC output</b>                    |   |         |         |         |
| Rated output power(kVA)             | 5   | 6       | 8       | 10      |
| Max. output current(A)              | 24  | 28.8    | 38.3    | 47.8    |
| Ac output voltage(V)                | 120/240(split phase), 208(2/3 phase),230 (single phase)             |         |         |         |
| Frequency (Hz)                      | 50/60   |         |         |         |
| PF                                  | 0.8lagging-0.8leading   |         |         |         |
| THDi                                | < 3%  |         |         |         |
| AC output topology                  | Split phase, 2/3 phase, single phase                                |         |         |         |
| <b>Battery</b>                      |   |         |         |         |
| Battery voltage range(V)            | 40~58   |         |         |         |
| Max. charging voltage(V)            | 58  |         |         |         |
| Max. charge/discharge current(A)    | 120/120   | 135/135 | 190/190 | 210/210 |
| Battery type                        | lithium /Lead-acid  |         |         |         |
| Communication interface             | CAN/RS485   |         |         |         |
| <b>EPS output</b>                   |   |         |         |         |
| Rated power(kVA)                    | 5   | 6       | 8       | 10      |
| Rated output voltage(V)             | 120/240 (split phase), 208 (2/3 phase),230 (single phase)           |         |         |         |
| Rated output current(A)             | 24  | 28.8    | 38.3    | 47.8    |
| Rated frequency(Hz)                 | 50/60   |         |         |         |
| Automatic switching time(ms)        | <20   |         |         |         |
| THDu                                | < 2%  |         |         |         |
| Overload capacity                   | 125%,60S/150%,1S  |         |         |         |
| <b>General data</b>                 |   |         |         |         |
| Max. efficiency                     | ≥98.2%  |         |         |         |
| North american efficiency           | ≥97.2%  |         |         |         |
| Ingress protection                  | IP65/NEMA 3R  |         |         |         |
| Noise emission(dB)                  | <25   | <29     | <29     | <29     |
| Operation temperature               | -25°C ~ 60°C  |         |         |         |
| Cooling                             | Natural   |         |         |         |
| Relative humidity                   | 0 ~95% (non-condensing)   |         |         |         |
| Altitude                            | 2,000m(>2,000 Derating)   |         |         |         |
| Dimensions W *D *H (mm)             | 430*220*710   |         |         |         |
| Weight(kg)                          | 41  |         |         |         |
| Isolation transformer               | No  |         |         |         |
| Self-consumption(W)                 | <3  |         |         |         |
| <b>Display and communication</b>    |   |         |         |         |
| Display                             | LCD, touch screen   |         |         |         |
| Interface:RS485/Wifi/4G/<br>CAN/DRM | Yes   |         |         |         |
| Safety standard                     | UL1741SA all options, UL1699B, CSA 22.2                             |         |         |         |
| EMC                                 | FCC Part 15, Class B  |         |         |         |
| On-grid                             | IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III,NRS |         |         |         |