

## TriP 6-20K

- Three-Phase solutions
- 150% unbalanced output, Max.10kW per phase
- 20kW UPS output
- Supports 1.5 DC/AC ratio
- Battery working range: 100~700V
- Separated generator port
- Smart load prioritise necessities
- Up to 21.6kW generator/AC coupling input



20kW UPS  
output



10 pcs  
Mountable



IP65 Outdoor  
Ready



150%  
Unbalanced  
Output  
(Max.10kW per phase)



AC  
Coupling

**Your Reliable Energy Solution Partner**

# SpecifiCation

| INPUT (PV DC)                                | TriP 6K                                         | TriP 8K | TriP 10K | TriP 12K              | TriP 15K | TriP 20K |
|----------------------------------------------|-------------------------------------------------|---------|----------|-----------------------|----------|----------|
| Max. PV array power (W)                      | 9000                                            | 12000   | 15000    | 18000                 | 22500    | 30000    |
| Reted PV input voltage (V)                   | 650                                             |         |          |                       |          |          |
| Number of independent MPPT inputs            | 2                                               |         |          | 3                     |          |          |
| Max. PV input voltage (V)                    | 1000                                            |         |          |                       |          |          |
| MPPT voltage range (V)                       | 200~900                                         |         |          |                       |          |          |
| Start-up voltage (V)                         | 160                                             |         |          |                       |          |          |
| Max. PV input current per MPPT (A)           | 20/20                                           |         |          | 40/40/40              |          |          |
| Max. PV short-circuit current input per MPPT | 25/25(A:1/B:1)                                  |         |          | 50/50/50(A:2/B:2/C:2) |          |          |
| Battery                                      |                                                 |         |          |                       |          |          |
| Compatible battery type                      | Lithium-ion/Lead-Acid                           |         |          |                       |          |          |
| Rated battery voltage (V)                    | 400                                             |         |          |                       |          |          |
| Battery voltage range (V)                    | 100~700                                         |         |          |                       |          |          |
| Max. charge voltage (V)                      | 700                                             |         |          |                       |          |          |
| Max. charge/discharge current (A)            | 50                                              |         |          |                       |          |          |
| Max. charge/discharge power (W)              | 6000                                            | 8000    | 10000    | 12000                 | 15000    | 20000    |
| Force wake up battery from PV fuction(Y/N)   | YES                                             |         |          |                       |          |          |
| Grid                                         |                                                 |         |          |                       |          |          |
| Rated AC voltage (V)                         | 230/400                                         |         |          |                       |          |          |
| Rated AC frequency (Hz)                      | 50                                              |         |          |                       |          |          |
| Rated AC output current (A)                  | 9.1                                             | 12.2    | 15.2     | 18.2                  | 22.8     | 30.3     |
| Rated AC output power (W)                    | 6000                                            | 8000    | 10000    | 12000                 | 15000    | 20000    |
| Rated AC intput current (A)                  | 11.4                                            | 15.3    | 19       | 22.8                  | 28.5     | 37.9     |
| Rated AC intput power (W)                    | 6000                                            | 8000    | 10000    | 12000                 | 15000    | 20000    |
| PF                                           | 0.99(Adjustable from 0.8 leading to0.8 lagging) |         |          |                       |          |          |
| THDI                                         | <3%                                             |         |          |                       |          |          |
| Rated AC current of BYPASS relays (A)        | 90                                              |         |          |                       |          |          |
| UPS                                          |                                                 |         |          |                       |          |          |
| Rated output power (W)                       | 6000                                            | 8000    | 10000    | 12000                 | 15000    | 20000    |
| Rated output voltage (V)                     | 230/400                                         |         |          |                       |          |          |
| Rated output current (A)                     | 9.1                                             | 12.2    | 15.2     | 18.2                  | 22.8     | 30.3     |
| Rated output frequency (Hz)                  | 50                                              |         |          |                       |          |          |
| Surge power, duration                        | 1.5Pn, 10s                                      |         |          |                       |          |          |
| Switching time                               | 20ms                                            |         |          |                       |          |          |
| Wave form                                    | Sine wave                                       |         |          |                       |          |          |
| THDV                                         | <3%                                             |         |          |                       |          |          |
| Efficiency                                   |                                                 |         |          |                       |          |          |
| Max. efficiency                              | 97.4%                                           |         |          |                       |          |          |
| Max.charge/discharge efficiency              | 97.2%                                           |         |          |                       |          |          |
| Protection                                   |                                                 |         |          |                       |          |          |
| PV reverse polarity protection(Y/N)          | YES                                             |         |          |                       |          |          |
| Over current/voltage protection(Y/N)         | YES                                             |         |          |                       |          |          |
| Anti-islanding protection                    | YES                                             |         |          |                       |          |          |
| AC Short-circuit protection                  | YES                                             |         |          |                       |          |          |
| Leakage current protecion                    | YES                                             |         |          |                       |          |          |
| Grid monitoring                              | YES                                             |         |          |                       |          |          |
| DC switch                                    | YES                                             |         |          |                       |          |          |
| Ingress protection                           | YES                                             |         |          |                       |          |          |
| DC Surge protection Type III                 | YES                                             |         |          |                       |          |          |
| AC Surge protection Type III                 | YES                                             |         |          |                       |          |          |
| General                                      |                                                 |         |          |                       |          |          |
| Dimensions ( W*H*D )                         | 605*563*257mm/24*22.4*10.2inch                  |         |          |                       |          |          |
| Weight                                       | 43kg/94.8lbs                                    |         |          |                       |          |          |
| Ingress protection rating                    | IP65                                            |         |          |                       |          |          |
| Operating environment temperature range(°C)  | -25~60                                          |         |          |                       |          |          |
| Storage temperature range(°C)                | -40~70                                          |         |          |                       |          |          |
| Relative humidity                            | 0~100%                                          |         |          |                       |          |          |
| Display & Communication interface            | Touch color screen, RS485/Wifi/CAN              |         |          |                       |          |          |
| Warranty                                     | 5 years                                         |         |          |                       |          |          |
| Cooling method                               | Natural cooling                                 |         |          | Smart cooling         |          |          |
| Topology                                     | Transformer-less                                |         |          |                       |          |          |
| Altitude                                     | <4000m                                          |         |          |                       |          |          |
| Noise emission (typical)                     | <50dB                                           |         |          |                       |          |          |
| Standard & Certification                     |                                                 |         |          |                       |          |          |
| VDE4105+0214, TOR Type A/B:2022              |                                                 |         |          |                       |          |          |