

# TRIEX 8kW

## SINGLE PHASE HYBRID LV INVERTER

 IP-66



## KEY FEATURES



String current  
up to 20A



60V start-up  
voltage



Wide range of  
MPPT voltage



Remote  
diagnosis & update



<10ms  
UPS-level  
switching



24-hour  
intelligent  
energy  
management



Easy setting  
of smart  
working modes



Smart load  
dual output  
interface

ANYTIME, ANYWHERE  
**REMOTE  
MONITORING**  
PLATFORM



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# TRIEX 8kW

## SINGLE PHASE HYBRID LV INVERTERS

| Input DC   |   |
|--|---|
| Max.input power                                      | 16kW  |
| Max.input voltage                                    | 550V  |
| Rated voltage  | 370V  |
| Start-up voltage                                     | 60V   |
| MPPT voltage range                                   | 60A/450V  |
| Max.input current                                    | 32A/32A   |
| Max.short circuit current                            | 40A/40A   |
| MPPT number  | 2   |
| Max.input strings number                             | 4   |
| Input Battery  |   |
| Battery type   | Lead-acid or Lithium-ion  |
| Battery voltage range                                | 40-60V  |
| Number of battery input channels                     | 1   |
| Max. charge / discharge current                      | 190/190   |
| Communication  | CAN/RS485   |
| Charging Strategy for Li-Ion Battery                 | Self-adaption to BMS  |
| Output AC (Grid side)                                |   |
| Rated output power                                   | 8kW   |
| Max. apparent output power                           | 8.8kVA  |
| Max. rated current                                   | 34.8A   |
| Max. output current                                  | 38.3A   |
| Grid voltage range                                   | 187-253V  |
| Rated grid voltage                                   | 220/230V  |
| Rated grid frequency                                 | 50/60Hz   |
| Power Factor   | 0.8 Leading-0.8 Lagging   |
| THDi   | <3%   |
| Input AC (Grid side)                                 |   |
| Rated input power                                    | 8kW   |
| Max. apparent output power                           | 8.8kVA  |
| Max input current                                    | 50A   |
| Rated input voltage                                  | 220V/230V   |
| Rated input frequency                                | 50Hz/60Hz   |
| Output AC (Back-up)                                  |   |
| Rated output power                                   | 8kW   |
| Max.output power                                     | 2 time of rated power,10s   |
| Max.output current                                   | 38.3A   |
| Back-up switch time                                  | <4ms  |
| Rated output voltage                                 | 220V/230V   |
| Rated frequency                                      | 50/60Hz   |
| THDv   | <3%   |
| Efficiency   |   |
| Max. efficiency                                      | 97.70%  |
| EU efficiency  | 96.7%   |
| BAT charged/discharge Max. efficiency                | 95.3% / 93.9%   |
| MPPT.Efficiency                                      | 99.80%  |
| Protection   |   |
| Integrated Dc Switch                                 | Yes   |
| DC rever-polarity protection                         | Yes   |
| Anti-islanding protection                            | Yes   |
| Short circuit protection                             | Yes   |
| Output over current protection                       | Yes   |
| DC Surge protection                                  | Type II   |
| AC Surge protection                                  | Type II   |
| Insulation impedance detection                       | Yes   |
| Ground fault monitoring                              | Yes   |
| Residual leakage current detection                   | Yes   |
| Temperature protection                               | Yes   |
| Battery reverse protection                           | No  |
| AC over voltage protection                           | Yes   |
| DC over current protection                           | Yes   |
| Antibackflow   | CT(standard),METER(optional)                                      |
| 24-hour load monitoring                              | Optional  |
| Integrated AFCI<br>(DC arc-fault circuit protection) | Yes   |
| General Data   |   |
| Dimension (W*H*D)                                    | 350*560*225mm   |
| Weight   | 26kg  |
| Self consumption(night) (Rated voltage)              | <20W  |
| Operating temperature range                          | -40 To +60℃   |
| Cooling concept                                      | Smart Fan Cooling   |
| Max. operation altitude                              | 4000m (Derating above 3000m)                                      |
| Relative humidity                                    | 0~100%  |
| Ingress protection                                   | IP 66   |
| Topology structure                                   | Transformerless   |
| Grid connection standard                             | IEC 61727,IEC 62116,IEC61683                                      |
| Safety/EMC standard                                  | IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2            |
| Type of DC terminal                                  | MC4 connector   |
| Battery connection type                              | Terminal  |
| Type of AC terminal (Back-up)                        | Terminal  |
| Type of AC terminal (Grid side)                      | Terminal  |
| Display & Communication                              |   |
| Display  | LED+Bluetooth+App (Optional:LCD)                                  |
| Communication interface                              | RS485 / CAN / Wi-Fi (Optional) / GPRS (Optional) / LAN (Optional) |

Product specifications are subject to change without further notice.