V-TAC
Meaningful Innovation.

**NEW** **All-in-one** Energy Storage System

# 12kW/15kWh

**10 YEAR WARRANTY**

**CEI 0-21 CERTIFICATE**

## SYSTEM SPECIFICATION

| | |
|---|---|
| Nominal Output Power/UPS Power (W) | 12000 / 12000 |
| AC Output Frequency and Voltage | 50/60Hz; 3L/N/PE 220/380, 230/400Vac |
| Grid Type | Three Phase |
| Recommended Energy Configuration | 15kWh(Min.) |
| Max. Charging/Discharging Current (A) | 240 |
| Battery Operating Voltage (V) | 43.2 ~ 57.6 |
| Battery Chemistry | LiFePO4 |
| IP Rating of Enclosure | IP65 (After stacking) IP20 (Without stacking) |
| System Certification | IEC62619, IEC60730, CE, VDE2510-50, CEI 0-21 |
| Warranty [1] | Battery 10 years (Inverter 10 years)` |

## INVERTER TECHNICAL SPECIFICATION

| | |
|---|---|
| Max. PV Input Power (W) | 15600 |
| Rated PV Input Voltage (Vdc) | 550 (160~800) |
| Start Up DC Voltage (Vdc) | 160 |
| MPPT Voltage Range (Vdc) | 200~650 |
| Full Load DC Voltage Range (V) | 350~650 |
| Max. PV Input Current (A) | 26+13 |
| Max. PV Short-circuit Current (A) | 34+17 |
| No. of MPP Trackers | 2 |
| Peak Power (off grid) | 2 time of rated power, 10s |
| Power Factor | 0.8 leading to 0.8 lagging |
| DC injection current (mA) | THD<3% (Linear load<1.5%) |
| Display | LCD |
| Relative Humidity | 15% ~ 85% (No Condensing) |
| Dimension (W x D x H,mm) | 720x255x440 |
| Weight (kg) | 38 |
| Communication with BMS | CAN2.0 |
| Max. Efficiency | 97.60% |
| Max. charging/discharging efficiency | 95.50% |

**5.12kWh Solar Battery**

SKU Code: 12186

**12kW Hybrid Solar Inverter-Three Phase**

SKU Code: 12190

**Power Distribute Unit III+ Base**

SKU Code: 12187

**BMS**

SKU Code: 12188

## BATTERY TECHNICAL SPECIFICATION

| | |
|---|---|
| Nominal Voltage (V) | 51.2 |
| Battery Module Energy (kWh) | 5.12 |
| Module Scalability | Max.36 pcs in parallel(Max. capacity of 184kWh) |
| Battery Module Dimension | 720*255*300(W x D x H, mm) |
| Battery Base Dimension | 720*255*68(W x D x H, mm) |
| Battery PDU3 Dimension | 720*255*228(W x D x H, mm) |
| Battery Module Weight (kg) | 53 |
| Operating Temperature Range | Charge: 0~55°C / Discharge: -20°C~+55°C |
| Cycle Life | ≥6000(25°C±2°C,0.5C/0.5C, 90%DOD,70%EOL) |

EMC/Safety Regulation

IEC/EN 62109-1,IEC/EN 62109-2,IEC/EN 61000-6-1,IEC/EN 61000-6-2,IEC/EN 61000-6-3,IEC/EN 61000-6-4

Grid Regulation

VDE4105,IEC61727/62116,VDE0126, AS4777.2,CEI 0-21,EN50549-1,G98, G99,C10-11,UNE217002, NBR16149/NBR16150

Battery Module

IEC62619, CE, UK, VDE2510-50, CEI 0-21, UN38.3, CE-LVD, CEC