

# V-TAC

Meaningful Innovation.

## 5kW

## Three Phase Hybrid Solar Inverter



Colorful touch LCD, IP65 protection degree

240

Max. charging/discharging current of 190A



AC couple to retrofit existing solar system

6

6 time periods for battery charging/discharging

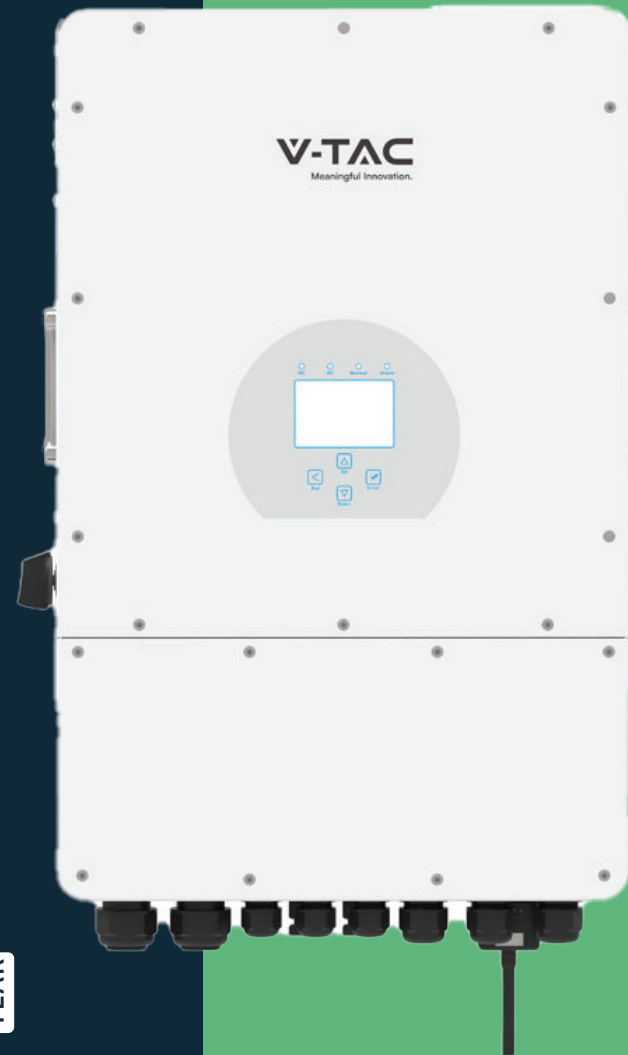
10

Max. 10pcs parallel for on-grid and o-grid operation; Support multiple batteries parallel



Support storing energy from diesel generator

**5+5** YEAR  
**EXTENDED WARRANTY**



V-TAC.EU

| VTACEXPORTS.COM



CE RoHS

## LISTING DETAILS

SKU Code: **11743**  
 EAN Code: **3800170203815**

## MASTER BOX PACKAGING

Net Weight : **33.6kg**  
 Product Size(mm) : **422×702×281**

## EFFICIENCY

Max. Efficiency **97.60%**  
 Euro Efficiency **97.00%**  
 MPPT Efficiency **99.90%**

## GENERAL DATA

Operating Temperature Range (°C) **-40~60°C, >45°C derating**  
 Cooling **Smart Cooling**  
 Noise (dB) **≤45 dB**  
 Communication with BMS **RS485; CAN**  
 Protection Degree **IP65**  
 Installation Style **Wall-mounted**

## PV STRING INPUT DATA

Max. DC Input Power (W) **6500**  
 Rated PV Input Voltage (V) **550 (160-800)**  
 Start-up Voltage (V) **160**  
 MPPT Voltage Range (V) **200-650**  
 Full Load DC Voltage Range (V) **350-650**  
 PV Input Current (A) **13+13**  
 Max. PV ISC (A) **17+17**  
 No.of MPP Trackers **2**  
 No.of Strings per MPP Tracker **1+1**

## AC OUTPUT DATA

Rated AC Output Active Power (W) **5000**  
 Max AC Output Active Power (W) **5500**  
 AC Output Rated Current (A) **7.6/7.2**  
 Max AC Output Current (A) **8.4/8**  
 Max. Three-phase Unbalanced Output Current (A) **11.4/10.9**  
 Max Output short circuit current (A) **75**  
 Max. Continuous AC Passthrough (A) **45**  
 Peak Power (off grid) **2 time of rated power, 10 S**  
 Power Factor **0.8 leading to 0.8 lagging**  
 Output Frequency and Voltage **50/60Hz; 3L/N/PE 220/380, 230/400Vac**  
 Grid Type **Three Phase**  
 Total Harmonic Distortion (THD) **<3% (of nominal power)**  
 DC Current Injection **<0.5% In**

## BATTERY INPUT DATA

Battery Type **Lead-acid or Lithium-ion**  
 Battery Voltage Range (V) **40~60**  
 Max. Charging Current (A) **120A**  
 Max. Discharging Current (A) **120A**  
 External Temperature Sensor **Yes**  
 Charging Curve **3 Stages / Equalization**  
 Charging Strategy for Li-Ion Battery **Self-adaption to BMS**

## PROTECTION

Integrated **Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection**  
 Surge Protection **DC Type III / AC Type III**  
 Over Voltage Category **DC Type II/AC Type III**

## CERTIFICATIONS AND STANDARDS

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

Safety EMC / Standard **IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2**