

V-TAC

Meaningful Innovation.

410W

Mono Half Solar Panel



HALF-CUT TECHNOLOGY

New Circuit Design, Lower Internal Current And Lower Internal Resistance Loss



SIGNIFICANTLY AVOIDING HEAT SPOT

The unique circuit design to reduce the temperature Of heat spot significantly,so that to reduce the power loss And then increase the output of modules.



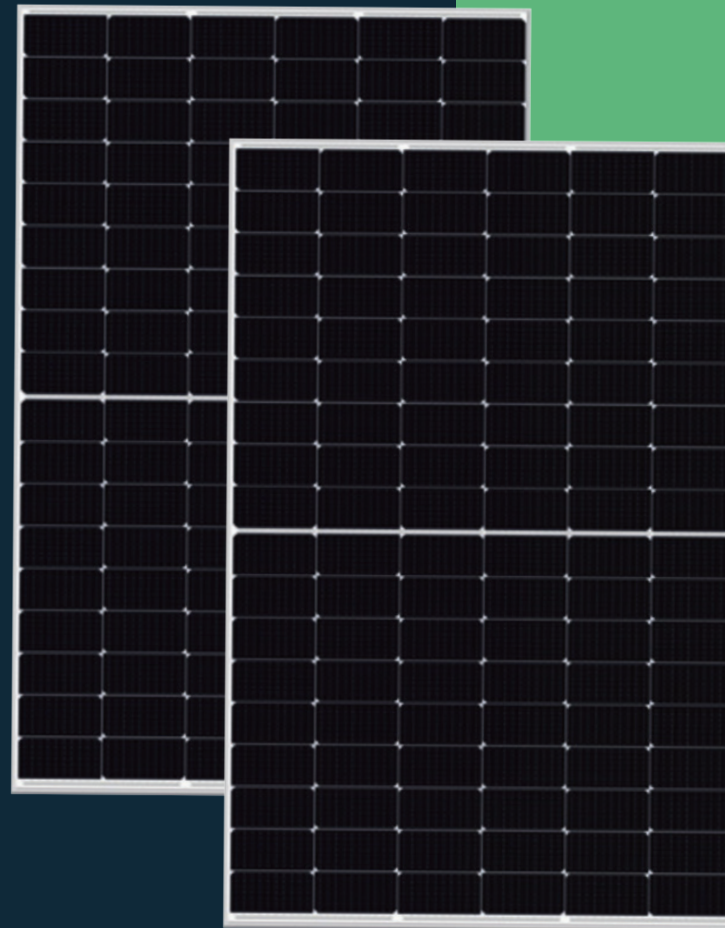
LOWER COST

Increasing power generation can reduce the cost per kilowatt-hour



EXCELLENT PERFORMANCE OF PID RESISTANCE

The performance of PID resistance(Potential Induced Degradation) passed the standard of TUV Nord.



CERTIFICATION NUMBER
MCS BBA 6933



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LISTING DETAILS

Model No: **VT-410**
 SKU Code: **11518**
 EAN Code: **3800157693509**

MASTER BOX PACKAGING

Qty Per Pallet: **20ft Container: 6 Packages/186pcs | 40ft Container: 26 Packages/806pcs**
 Net Weight : **21.50kg**
 Product Size : **1722*1134*35mm**

ELECTRICAL DATA (STC)

| | |
|----------------------------|----------|
| Peak Power(Pmax) | 410.00 |
| Maximum Power Voltage(Vmp) | 31.46 |
| Maximum Power Current(Imp) | 13.04 |
| Open Circuit Voltage(Voc) | 37.45±3% |
| Short Circuit Current(Isc) | 13.85±3% |
| Module Efficiency(%) | 20.97 |

ELECTRICAL DATA (NOCT)

| | |
|----------------------------|----------|
| Peak Power(Pmax) | 304.8 |
| Maximum Power Voltage(Vmp) | 29.20 |
| Maximum Power Current(Imp) | 10.44 |
| Open Circuit Voltage(Voc) | 35.05±3% |
| Short Circuit Current(Isc) | 11.16±3% |

MECHANICAL CHARACTERISTICS

| | |
|------------------------|--|
| Cell Type | 182*91 Mono |
| No. of Cells | 108 (12*9) |
| Front Glass | 3.2mm high transmission, low iron, tempered glass |
| Frame | Anodized Aluminium Alloy |
| Junction box | IP67/IP68 3diodes |
| Output cables | 4mm ² cable 100cm (Including MC4 connector) |
| MaxWind Load/Snow Load | 2400Pa/5400Pa |

TEMPERATURE & MAXIMUM RATING

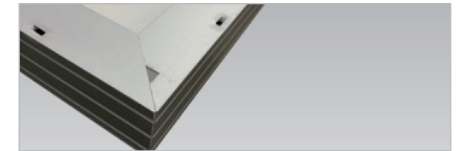
| | |
|--|-------------|
| Maximum System Voltage (V) | 1500 V |
| Maximum Series Fuse Rating (A) | 25A |
| Power Tolerance | 0~+3 W |
| Pmax Temperature Coefficient (W/°C) | -0.350 %/°C |
| Voc Temperature Coefficient (V/°C) | -0.285 %/°C |
| Isc Temperature Coefficient (A/°C) | +0.045 %/°C |
| NOCT Nominal Operating Cell Temperature (°C) | 45±2°C |
| Operating and Storage Temperature (°C) | -40~+85°C |



JUNCTION BOX

Waterproof protection grade:IP67/IP68
 Safety Level: Class II
 Maximum System Voltage: 1500V

Outstanding waterproof level. Effectively resist harsh environments

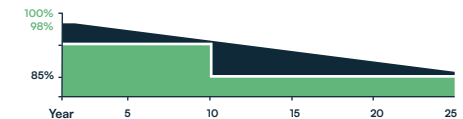


FRAME

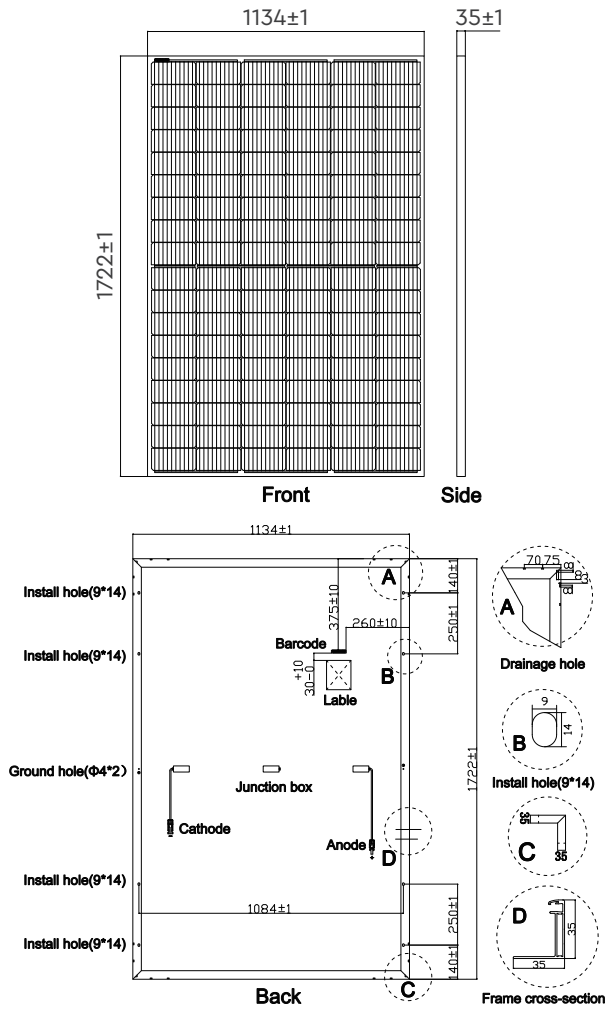
Strong machinical load resistance up to 5400Pa
 Anodic oxidation layer resistant to chemical corrosion
 available in silver and black

12 YEAR
 WARRANTY
 PRODUCT MATERIAL

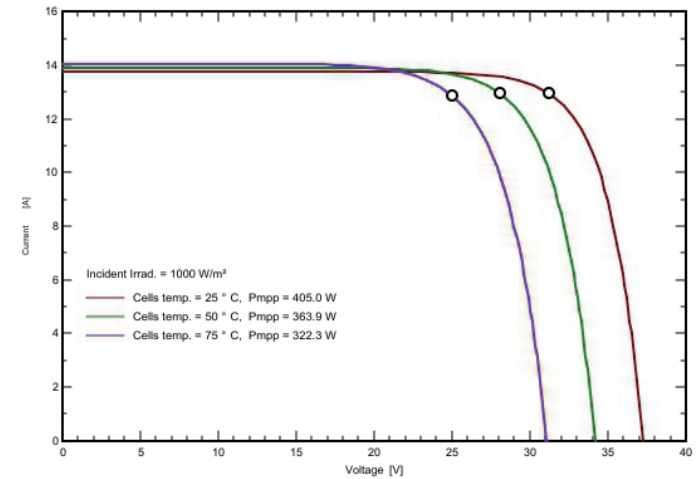
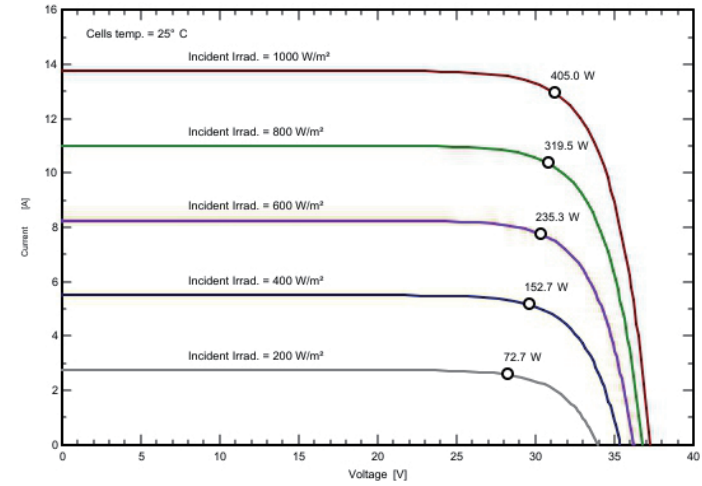
25 YEAR
 WARRANTY
 LINEAR POWER OUTPUT



DRAWING AND DIMENSION



IV CURVE



V-TAC

Meaningful Innovation.

5kW

Single Phase Hybrid Solar Inverter

05 YEAR
WARRANTY



Colorful touch LCD, IP65 protection degree



DC couple and AC couple to retrofit existing solar system

16

Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel

135

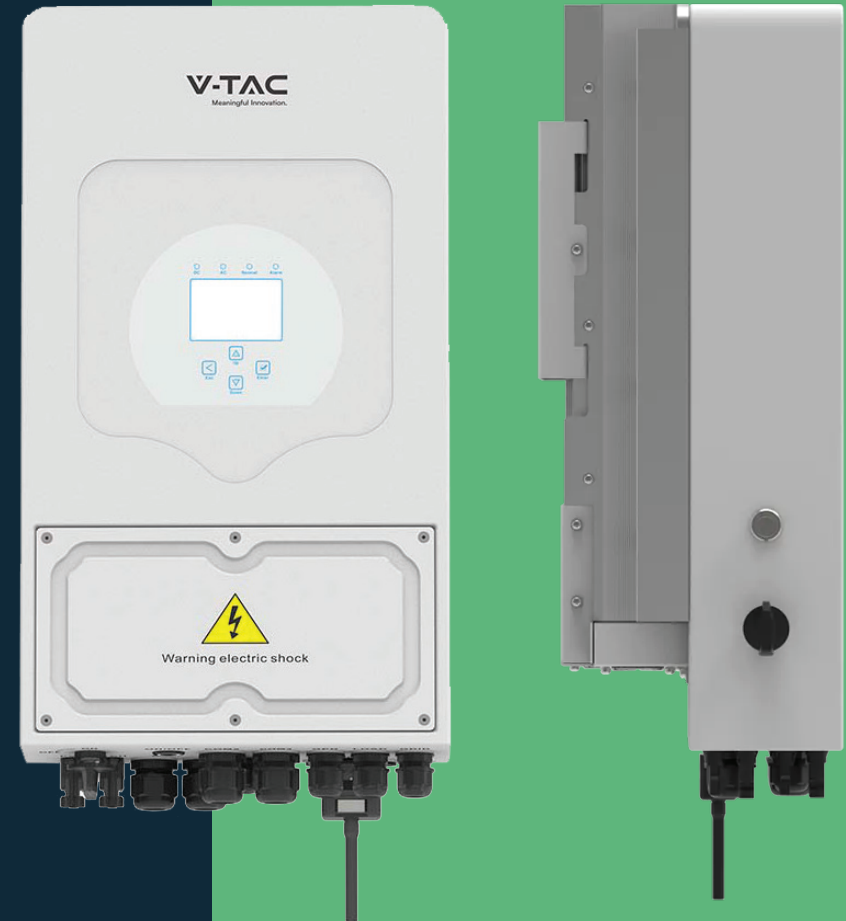
Max. charging/discharging current of 135A

6

6 time periods for battery charging/discharging



Support storing energy from diesel generator



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CE RoHS

LISTING DETAILS

SKU Code: **11547**

EAN Code: **3800157697330**

MASTER BOX PACKAGING

Net Weight : **24kg**

Product Size : **330W x 580H x232D**

EFFICIENCY

Max. Efficiency **97.60%**

Euro Efficiency **96.50%**

MPPT Efficiency **99.90%**

GENERAL DATA

Operating Temperature Range (°C) **-40~60°C, >45°C derating**

Cooling **Natural cooling**

Noise (dB) **<30 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) **370 (125~500)**

Start-up Voltage (V) **125**

MPPT Voltage Range (V) **150-425**

Full Load DC Voltage Range (V) **300-425**

PV Input Current (A) **13+13**

Max. PV ISC (A) **17+17**

No.of MPP Trackers **2**

No.of Strings per MPP Tracker **1**

AC OUTPUT DATA

Rated AC Output and UPS Power (W) **5000**

Max. AC Output Power (W) **5500**

AC Output Rated Current (A) **25/23.9**

Max. AC Current (A) **22.7/21.7**

Max. Continuous AC Passthrough (A) **35**

Peak Power (off grid) **2 time of rated power, 10 S**

Power Factor **0.8 leading to 0.8 lagging**

Grid Type **THD<3% (Linear load<1.5%)**

DC injection current (mA) **Single Phase**

Output Frequency and Voltage **50/60Hz; L/N/PE 220/230Vac (single phase)**

BATTERY INPUT DATA

Battery Type **Lead-acid or Li-Ion**

Battery Voltage Range (V) **40~60**

Max. Charging Current (A) **120**

Max. Discharging Current (A) **120**

External Temperature Sensor **Yes**

Charging Curve **3 Stages / Equalization**

Charging Strategy for Li-Ion Battery **Self-adaption to BMS**

PROTECTION

Integrated

PV Input Lightning Protection, 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

Output Over Voltage Protection **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**

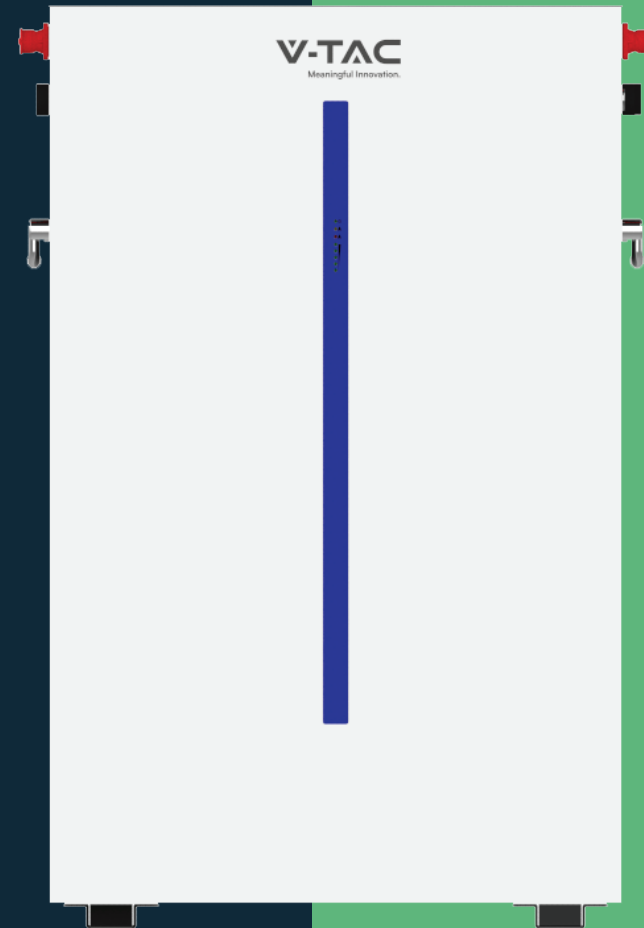
V-TAC

Meaningful Innovation.

6.14kWh Wall Mounting Battery

05 YEAR
WARRANTY

CEI 0-21
Certificate



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TUV NORD

CE RoHS

LISTING DETAILS

SKU Code: **11539**
 EAN Code: **3800157697187**

MASTER BOX PACKAGING

Qty Per Pallet: **8pcs**
 Net Weight : **58kg**
 Product Size : **475W*720H*145D**
(mm, Without Base,depth of 161mm with Hanging Board)

MAIN PARAMETER

| | | |
|------------------------------|--------------------------------|-----|
| Battery Chemistry | LiFePO4 | |
| Capacity (Ah) | 120 | |
| Scalability | Max.32 pcs in Parallel(196kWh) | |
| Nominal Voltage (V) | 51.2 | |
| Operating Voltage(V) | 43.2~57.6 | |
| Energy (kWh) | 6.14 | |
| Usable Energy (kWh) [1] | 5.53 | |
| Charge/Discharge Current (A) | Recommend [2] | 60 |
| | Max. [2] | 100 |
| | Peak(2mins,25°C) | 150 |

OTHER PARAMETER

| | |
|------------------------------|--|
| Recommend Depth of Discharge | 90% |
| Master LED Indicator | 5LED(SOC:20%~SOC100%),3LED (working, alarming, protecting) |
| IP Rating of Enclosure | IP65 |
| Operating Temperature | Charge:0~55°C / Discharge:-20°C~55°C |
| Storage Temperature | 0°C~35°C |
| Humidity | 5%~95% |
| Altitude | ≤2000m |
| Cycle Life | ≥6000(25°C±2°C,0.5C/0.5C,70%EOL) |
| Installation | Wall-Mounted, Floor-Mounted |
| Communication Port | CAN2.0, RS485 |
| Energy Throughput [3] | 20MWh@70%EOL |
| Certification | UN38.3, IEC62619, CE, CEI 0-21 |

• Safer

Cobalt Free Lithium Iron Phosphate (LFP) Battery, safety and long lifespan, high efficiency and high-power density. Intelligent BMS, providing complete protection.

• Reliable

Support high discharge power. IP65, natural cooling, wide temperature range: -20°C to 55°C.

• Flexible

Modular design, easy to expand, Max. 32 units in parallel, Max. capacity of 196kWh. Suited to residential and commercial applications for increasing the self-consumption ratio.

• Convenient

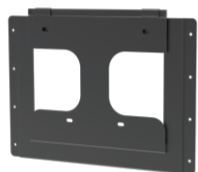
Battery module auto networking, Automatic IP addressing, easy maintenance, remotely monitoring and upgrade, support USB drive upgrade the firmware.

• Eco-Friendly

Use environmental protection materials, the whole module non-toxic, pollution-free.

• Wall-Mounted

Flat design, wall-mounted, saving installation space.



Hboard

Accessories Included



CCable



Base



PCable

[1] DC Usable Energy, test conditions: 90% DOD, 0.5C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.

[2] The current is affected by temperature and SOC.