V-TAC was founded with the vision of providing energy-efficient LED lighting solutions worldwide.

While building a vast portfolio in LED lighting over the past years, we were also able to build expertise in innovation and expand our R&D team to offer a diversified catalogue with over 3500 products to our clients and partners all over the UK and Europe.

Utilizing our brand value and manufacturing technologies, we have been expanding our product categories beyond lighting, with one mission to improve the lives of humanity worldwide.

Now, we are moving towards promoting sustainable practices that will help citizens and businesses lower their carbon footprint, and become a global leader in providing energy efficient systems — including solar panels, inverters, battery packs, and power stations.
V-TAC was founded with the vision of providing energy-efficient LED lighting solutions worldwide.

2009
Began our EU expansion by opening the first V-TAC warehouse and office in Sofia, Bulgaria.

2011
Started building our distribution network in the UK from our office in Southall, London.

2013
Launched our in-house product testing lab in Sofia, Bulgaria.

2015
Achieved $100M Annual Turnover- Manufacturing Joint Venture with DASHER Lighting for decorative lighting.

2016
Achieved $100M Annual Turnover- Manufacturing Joint Venture with DASHER Lighting for decorative lighting.

2017
In-brand partnership with Samsung.

2018
• Partnership with Tuya and launched new Smart Series
• Unveiled the new V-TAC Showroom in Slough, UK

2019
Opened new office in Poland.

2020
• New website launch
• Opened new office in Ireland.

2021
Centralized warehouse in Bulgaria extended to 42000+ sq mts.

2022
Progressed into the green energy era with our new Solar products range.
Solar energy is energy derived from sunlight. Whether you realise it or not, the sun already powers our planet, providing the necessary energy to keep the Earth’s ecosystem alive and thriving. The amount of sunlight that reaches the earth’s atmosphere is enough to power all our needs.

According to the US Department of Energy, 173000 terawatts of solar energy strike the earth continuously, which is more than 10000 times the world’s total energy use. The sun is a free, sustainable, clean resource we can utilise in place of conventional electricity to power our day-to-day lives. Solar energy can be used to provide heat, light, and other electricity-dependent needs in residential and commercial buildings.

**HOW DO SOLAR PANELS ACTUALLY WORK?**

Solar panels are made of highly excitable, conductive materials. When the sun’s rays hit the solar panels, the reaction creates direct current (DC) electricity. Do they work even on overcast days? Absolutely, since the sun’s rays can still penetrate clouds and reach solar panels.

Since most homes and businesses use alternating current (AC) electricity, your solar-generated DC energy will pass through an inverter to become AC electricity. This energy can be rationed into load for everyday essential appliance use, the rest stored into a battery, reverted back into a grid — entirely dependent on your choice and solar power system goals.

Solar panels enable humanity to maximise solar energy — a free, clean, energy resource. This is a major step in lowering carbon footprint and eventually achieving net-zero. V-TAC’s new Energy catalogue aims to promote clean energy access with energy supplies at the best prices, and contributing to economic growth by pushing for energy savings.
WHY SOLAR ENERGY IS IMPORTANT?

There’s a reason why so many homeowners and businesses are turning to solar power. The benefits are undeniable, and not just for individuals, but for the planet as a whole. Here are just a few of the many reasons that support the importance of solar energy.

IT’S GOOD FOR THE ENVIRONMENT

The difference between solar energy and conventional electricity is that solar energy does not rely on the use of fossil fuels, does not pollute air or water, and does not contribute to global warming, making it the preferable option for many. Solar energy works with the earth’s natural resources, whereas conventional electricity depletes or harms them.

IT’S A RELIABLE, COST-EFFECTIVE ENERGY SOURCE

The sun is a renewable energy source. Fossil fuels will eventually run out, but sunlight won’t. For that reason, solar energy is highly reliable. And unlike fossil fuels which are expensive to mine and utilize, it doesn’t cost anything to receive sunlight. A one-time installation of solar equipment is all that’s needed to reap the benefits.

IT SAVES YOU MONEY IN THE LONG RUN

Though the cost of installing solar panels or a solar electric system has decreased in recent years, some may still find the initial investment in solar energy to be intimidating. However, the key is remembering that installation is a one-time event, whereas paying for conventional electricity is a frequent, ongoing, and an expensive obligation, especially as electric rates continue to rise.

IT PROMOTES ENERGY INDEPENDENCE

Energy independence means not having to rely on the power grid. With no other means of powering your home, you could run into a variety of issues in the event of bad weather or damage to power lines. Using solar energy, especially when paired with a backup battery system, allows you to not be tied to unreliable power grids when you need energy most.
V-TAC Solar Panels are engineered for a positive power tolerance, ensuring that they will always produce more power, equal to or greater than their rated power.

PID Resistance means our solar panels maintain their power efficiency despite high voltages, high temperatures, high humidity, and other potential factors. With advanced glass and cell surface textured design, excellent performance even during overcast days is possible. The 25-year Linear Output Warranty guarantees that optimal power output will still be achieved even after decades of installation.
### Solar Panels

**SILVER FRAME SOLAR PANEL**

**410W**

VT-410 SKU 11518

<table>
<thead>
<tr>
<th>Cell Type</th>
<th>182*91 Mono</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Cells</td>
<td>108 (12’9)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>D:1722<em>1134</em>35mm</td>
</tr>
<tr>
<td>Weight</td>
<td>21.50kg</td>
</tr>
<tr>
<td>Junction box</td>
<td>IP67/IP68 3diodes</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-40°~+85°C</td>
</tr>
<tr>
<td>Qty Per Pallet</td>
<td>31pcs/pallet</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA (STC)**

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

**MECHANICAL CHARACTERISTICS**

- Dimensions: D:1722*1134*35mm
- Weight: 21.50kg
- Junction box: IP67/IP68 3diodes
- Operating Temp.: -40°~+85°C
- Qty Per Pallet: 31pcs/pallet

---

**SILVER FRAME SOLAR PANEL**

**410W**

VT-410 SKU 11517

<table>
<thead>
<tr>
<th>Cell Type</th>
<th>182*91 Mono</th>
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</thead>
<tbody>
<tr>
<td>No. of Cells</td>
<td>108 (12’9)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>D:1722<em>1134</em>30mm</td>
</tr>
<tr>
<td>Weight</td>
<td>21.50kg</td>
</tr>
<tr>
<td>Junction box</td>
<td>IP67/IP68 3diodes</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-40°~+85°C</td>
</tr>
<tr>
<td>Qty Per Pallet</td>
<td>37pcs/pallet</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA (STC)**

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

**MECHANICAL CHARACTERISTICS**

- Dimensions: D:1722*1134*30mm
- Weight: 21.50kg
- Junction box: IP67/IP68 3diodes
- Operating Temp.: -40°~+85°C
- Qty Per Pallet: 37pcs/pallet

---

**BLACK SOLAR PANEL**

**410W**

VT-410 SKU 11519

<table>
<thead>
<tr>
<th>Cell Type</th>
<th>182*91 Mono</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Cells</td>
<td>108 (12’9)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>D:1722<em>1134</em>35mm</td>
</tr>
<tr>
<td>Weight</td>
<td>21.50kg</td>
</tr>
<tr>
<td>Junction box</td>
<td>IP67/IP68 3diodes</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-40°~+85°C</td>
</tr>
<tr>
<td>Qty Per Pallet</td>
<td>31pcs/pallet</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA (STC)**

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

**MECHANICAL CHARACTERISTICS**

- Dimensions: D:1722*1134*35mm
- Weight: 21.50kg
- Junction box: IP67/IP68 3diodes
- Operating Temp.: -40°~+85°C
- Qty Per Pallet: 31pcs/pallet

---

**BLACK FRAME SOLAR PANEL**

**410W**

VT-410 SKU 11561

<table>
<thead>
<tr>
<th>Cell Type</th>
<th>182*91 Mono</th>
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</thead>
<tbody>
<tr>
<td>No. of Cells</td>
<td>108 (12’9)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>D:1722<em>1134</em>36mm</td>
</tr>
<tr>
<td>Weight</td>
<td>21.50kg</td>
</tr>
<tr>
<td>Junction box</td>
<td>IP67/IP68 3diodes</td>
</tr>
<tr>
<td>Operating Temp.</td>
<td>-40°~+85°C</td>
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<tr>
<td>Qty Per Pallet</td>
<td>31pcs/pallet</td>
</tr>
</tbody>
</table>

**ELECTRICAL DATA (STC)**

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

**MECHANICAL CHARACTERISTICS**

- Dimensions: D:1722*1134*36mm
- Weight: 21.50kg
- Junction box: IP67/IP68 3diodes
- Operating Temp.: -40°~+85°C
- Qty Per Pallet: 31pcs/pallet

---
**Solar Panels**

### 450W

**VT-450W**  
SKU 11353

**MECHANICAL CHARACTERISTICS**
- **Cell Type**: 166*103 Mono
- **No. of Cells**: 132 (12*12)
- **Dimensions**: 2094*1038*35mm
- **Weight**: 23.50kg
- **Junction box**: IP67/IP68 3diodes
- **Operating Temperature**: -40°C to +85°C
- **Qty Per Pallet**: 31pcs/pallet

**ELECTRICAL DATA (STC)**
- **Peak Power(Pmax)**: 450.00W
- **Maximum Power Voltage(Vmp)**: 41.50V
- **Maximum Power Current(Imp)**: 10.85A
- **Open Circuit Voltage(Voc)**: 49.30±3%
- **Short Circuit Current(Isc)**: 11.60±3%
- **Module Efficiency( % )**: 20.70%

### 545W

**VT-545W**  
SKU 11354

**MECHANICAL CHARACTERISTICS**
- **Cell Type**: 182*91 Mono
- **No. of Cells**: 144 (12*12)
- **Dimensions**: 2279*1134*35mm
- **Weight**: 28.40kg
- **Junction box**: IP67/IP68 3diodes
- **Operating Temperature**: -40°C to +85°C
- **Qty Per Pallet**: 31pcs/pallet

**ELECTRICAL DATA (STC)**
- **Peak Power(Pmax)**: 545.00W
- **Maximum Power Voltage(Vmp)**: 41.93V
- **Maximum Power Current(Imp)**: 13.00A
- **Open Circuit Voltage(Voc)**: 49.90±3%
- **Short Circuit Current(Isc)**: 13.92±3%
- **Module Efficiency( % )**: 21.08%

### 665W

**VT-665W**  
SKU 11544

**MECHANICAL CHARACTERISTICS**
- **Cell Type**: 210*105 Mono
- **No. of Cells**: 132 (12*11)
- **Dimensions**: 2384*1033*35mm
- **Weight**: 33.90kg
- **Junction box**: IP67/IP68 3diodes
- **Operating Temperature**: -40°C to +85°C
- **Qty Per Pallet**: 31pcs/pallet

**ELECTRICAL DATA (STC)**
- **Peak Power(Pmax)**: 665.00W
- **Maximum Power Voltage(Vmp)**: 38.00V
- **Maximum Power Current(Imp)**: 17.50A
- **Open Circuit Voltage(Voc)**: 45.80±3%
- **Short Circuit Current(Isc)**: 18.58±3%
- **Module Efficiency( % )**: 21.40%
V-TAC launches an innovative way to transport our solar panel range: with the usage of especially packed solar panel sets. The sets were designed with homes and small industrial projects in mind, providing a limited number of panels to match customers' requirements. Our state-of-the-art 410W and 450W panels are packed methodically in mini pallets, which can then be easily transported directly on site to provide the exact power and energy required.
Solar Panels Sets

4.92 kW/SET
410W X 12
Half Mono Solar Panel Black Frame
D:1722*1134*35MM
SKU 11549
1 meter CABLE

SLIM DESIGN
4.92 kW/SET
410W X 12
Slim Half Mono Solar Panel
D:1722*1134*30MM
SKU 11550
1 meter CABLE

4.95 kW/SET
450W X 11
Half Mono Solar Panel
D:2094*1038*35MM
SKU 11553

11 pcs

V-TAC.EU | VTACEXPORTS.COM
Solar Panels Sets

14 pcs

6.30 kW/SET
450W X 14
Half Mono Solar Panel
D:2094*1038*35MM
SKU 11554

15 pcs

6.15 kW/SET
410W X 15
Half Mono Solar Panel
D:1722*1134*35MM
SKU 11563
1 meter CABLE

15 pcs

6.15 kW/SET
410W X 15
Slim Half Mono Solar Panel
D:1722*1134*30MM
SKU 11551
1 meter CABLE

15 pcs

6.15 kW/SET
410W X 15
Half Mono Solar Panel
Black Frame
D:1722*1134*35MM
SKU 11563
1 meter CABLE

1 meter

SLIM DESIGN

CAPSUCKERS

VENTURE

CUT

CABLE

CAPSUCKERS

VENTURE

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VENTURE
Solar Inverters are devices that convert the direct current (DC) from the solar panels into alternating current (AC) which is used by domestic and commercial appliances. It is one of the most critical components of the solar power system as it converts power from the sun into useful energy and is often referred to as the brain of a solar system. Solar inverters are a crucial part of a solar system since power from the sun cannot be directly used to run electrical appliances. V-TAC’s range of solar inverters have evolved to become much more smart and intelligent units, performing other functions such as data monitoring, advanced utility controls, energy management, and more.
Typically used in most new houses and small businesses, single-phase on-grid inverters transport electricity via two wires: active and neutral. The electricity from the grid or your solar PV system will only flow through the one active wire, while the neutral wire is connected to the earth at the switchboard. This setup allows you to generate solar power from panels as well as draw power in from the grid to power your homes or offices.

**Solar Inverters**

**Single Phase**

**On-Grid Solar Inverters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Power</th>
<th>Warranty</th>
<th>SKU</th>
<th>Number of MPP Trackers</th>
<th>String per MPPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT-6605105</td>
<td>5kW</td>
<td>5 YEAR</td>
<td>SKU 11370</td>
<td>2</td>
<td>1</td>
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<tr>
<td>VT-6605110</td>
<td>5kW</td>
<td>10 YEAR</td>
<td>SKU 11380</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

- Zero export function (Optional)
- External Inductor
- Aluminum Enclosure
- Natural cooling, low noise
- IP65 Rating
Three-phase power has four wires, three of which are active, in addition to one neutral wire, which is earthed at the switchboard. Three phase electricity is common in both larger homes and businesses, as well as older homes, and allows for smaller and less expensive wiring, and lower voltages.
Solar Inverters

Three Phase
On-Grid Solar Inverters

5kW
VT-6605310 SKU 11381
8kW
VT-6608310 SKU 11382
10kW
VT-6610310 SKU 11383

- 10 YEAR WARRANTY

30kW
VT-6630305 SKU 11507

- 10 YEAR WARRANTY

50kW
VT-6607150 SKU 11521

- 10 YEAR WARRANTY

100kW
VT-6607100 SKU 11520

- 10 YEAR WARRANTY

Multi MPP trackers
160% DC Input oversizing
Smart I-V curve diagnosis supported
DC&AC type II SPD
Intelligent fault detection
AFCI function (Optional)
IP66 rating

Number of MPP Trackers
String per MPPT

5kW
- 2
- 1

8kW
- 2
- 1

10kW
- 3
- 2

30kW
- 3
- 2

50kW
- 4

- 3 / 2 / 3 / 2

100kW
- 9

- 2
Solar Inverters

Single Phase

Hybrid Solar Inverters

Hybrid inverters allows you to generate solar power from panels, draw power from the grid and store excess energy created by the panels into battery packs to be drawn in whenever necessary. The electricity from the grid, solar PV system or the battery will only flow through the one active wire, while the neutral wire is connected to the earth at the switchboard.

5kW
VT-6607103
SKU 11508/11509

05 YEAR WARRANTY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of MPP Trackers</td>
<td>2</td>
</tr>
<tr>
<td>String per MPPT</td>
<td>1</td>
</tr>
</tbody>
</table>

Lead-acid/ lithium Battery
Smart energy management
Battery reverse protection
IP66 rating
Zero export function (Integrated)
Solar Inverters

Single Phase

Hybrid Solar Inverters

5kW
VT-6605103
SKU 11376

03 YEAR WARRANTY

- Number of MPP Trackers: 2
- String per MPPT: 1

5kW
VT-6605103
SKU 11376

- High DC/AC ratio
- Battery capacity from 2.4 to 14.4kW.h
- User friendly HMI
- Easy to install
- Support battery customization

6kW
VT-6607106
SKU 11514

05 YEAR WARRANTY

- Number of MPP Trackers: 2
- String per MPPT: 1

6kW
VT-6607106
SKU 11514

- UPS function switch time < 10ms
- PV oversize 1.5 times pv oversize
- MPPT channels up to 2 MPPT channels
- Multiple inputs support generator & wind turbines
Single Phase
Hybrid Solar Inverters

5kW SKU 11547
6kW SKU 11537

Number of MPP Trackers 2
String per MPPT 1

- Colorful touch LCD, IP65 protection degree
- DC couple and AC couple to retrofit existing solar system
- Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Support storing energy from diesel generator
- Max. charging/discharging current of 135A
- 6 time periods for battery charging/discharging

05 YEAR WARRANTY

ITALIAN SPECIFICATION SKU 11529
Solar Inverters

Three Phase Hybrid Solar Inverters

Three-phase power has four wires, three of which are active, in addition to one neutral wire, which is earthed at the switchboard. Three phase electricity is common in both larger homes and businesses, as well as older homes, and allows for smaller and less expensive wiring, and lower voltages.

**10kW SKU 11542**

<table>
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<tr>
<th>Feature</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Number of MPP Trackers</td>
<td>2</td>
</tr>
<tr>
<td>String per MPPT</td>
<td>2+1</td>
</tr>
<tr>
<td>Colorful touch LCD</td>
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</tr>
<tr>
<td>IP65 protection degree</td>
<td></td>
</tr>
<tr>
<td>Max. charging/discharging current</td>
<td>240A</td>
</tr>
<tr>
<td>DC couple and AC couple</td>
<td>To retrofit existing solar system</td>
</tr>
<tr>
<td>Max. 10pcs parallel for on-grid and off-grid operation</td>
<td></td>
</tr>
<tr>
<td>supports multiple parallel batteries</td>
<td></td>
</tr>
<tr>
<td>48V low voltage battery</td>
<td></td>
</tr>
<tr>
<td>Transformer isolation design</td>
<td></td>
</tr>
<tr>
<td>100% unbalanced output</td>
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</tr>
</tbody>
</table>

**12kW SKU 11543**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of MPP Trackers</td>
<td>2</td>
</tr>
<tr>
<td>String per MPPT</td>
<td>2+1</td>
</tr>
<tr>
<td>Max. charging/discharging current</td>
<td>240A</td>
</tr>
<tr>
<td>6 time periods for battery charging/discharging</td>
<td></td>
</tr>
<tr>
<td>Support storing energy from diesel generator</td>
<td></td>
</tr>
<tr>
<td>100% unbalanced output</td>
<td></td>
</tr>
</tbody>
</table>
Battery Storage Solutions

Having batteries in your solar power system gives you more energy self-sufficiency, and helps you achieve your ROI. We offer different types of safe, reliable battery solutions to meet power storage needs depending on a variety of factors — the solar array size, on-grid or off-grid system, backup power requirements, and overnight energy consumption in kWh. Our batteries are modular and scalable to easily build your target load with each usable capacity. IP65 options are available for a weatherproof performance all year round.
Battery Storage Solutions

Rack Mounting
Lithium Battery

5.12kWh
VT-48100E-P2
SKU 11377
05 YEAR WARRANTY
51.2V VOLTAGE

Perfect compatibility & expandability
High performance & efficiency
Easy installation
Long-life lithium Battery

9.60kWh
48200B
SKU 11523
05 YEAR WARRANTY
48.0V VOLTAGE
Battery Storage Solutions

Indoor Wall Mounting Batteries

- **5.12kWh**
  - VT48100E-W
  - SKU: 11526
  - 51.2V Voltage
  - 05 Year Warranty

- **5kWh**
  - AT48-100H LiFePO4 Battery Pack
  - VT-5139
  - SKU: 11448
  - 48V Voltage
  - 05 Year Warranty

- **10kWh**
  - AT48-200H LiFePO4 Battery Pack
  - VT-10240
  - SKU: 11447
  - 48V Voltage
  - 05 Year Warranty
Battery Storage Solutions

Weatherproof

Wall Mounting

Batteries

5.12kWh
VT-48100-W2
SKU 11524
51.2V
VOLTAGE

05 YEAR WARRANTY

Intelligent BMS monitoring for all-round protection

A-grade LFP cells, ensuring safety of the battery

6000 cycle lifespan with a 10 year warranty

14.33kWh
VT-48280-W2
SKU 11525
51.2V
VOLTAGE

05 YEAR WARRANTY

Overcurrent protection

In-built App to monitor and track battery capacity

Easy installation with wall-mounted latches
Weatherproof
Wall Mounting

Batteries

• 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.

CEI 0-21 Certificate

6.14kWh
SKU 11539
51.2V
VOLTAGE

05 YEAR WARRANTY
## General Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Combination method</td>
<td>1S1P</td>
</tr>
<tr>
<td>Rated capacity</td>
<td>Typical 161Ah, minimum 158Ah</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>48V</td>
</tr>
<tr>
<td>Voltage at end of discharge</td>
<td>42V</td>
</tr>
<tr>
<td>Standard charge current</td>
<td>32A</td>
</tr>
<tr>
<td>Limiting current</td>
<td>20A</td>
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</tbody>
</table>

## Additional Information

<table>
<thead>
<tr>
<th>Information</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Battery Storage</td>
<td>Waterproof, Wall Mounting</td>
</tr>
<tr>
<td>Rated voltage</td>
<td>48.0V</td>
</tr>
<tr>
<td>Voltage at end of discharge</td>
<td>32V</td>
</tr>
<tr>
<td>Discharge Cut-off voltage</td>
<td></td>
</tr>
<tr>
<td>Charge time: Approx 6h</td>
<td></td>
</tr>
<tr>
<td>Software opening</td>
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</tr>
<tr>
<td>Batteries</td>
<td>7.64kWh</td>
</tr>
<tr>
<td>Warranty</td>
<td>05 YEAR</td>
</tr>
<tr>
<td>SKU</td>
<td>11548</td>
</tr>
<tr>
<td>VTAC.EU</td>
<td></td>
</tr>
<tr>
<td>VTACEXPORTS.COM</td>
<td></td>
</tr>
</tbody>
</table>
We are dedicated to helping you shift to clean energy — our solar system kits are designed so anyone can easily jumpstart their journey to having a sustainable, solar power system. On-grid and hybrid options are available, so you can either keep your local electric connection or live off-the-grid at your choice. Whether residential, commercial, or industrial, we offer complete solar systems to meet your power needs at your specifications.
Whether it is installed on a roof or in a remote location, this 5kW Complete Solar Panel System Kit with Battery and Inverter can be easily connected to any electrical system. PV systems generate electricity during the day, which is initially supplied to loads. Hybrid Inverters will then charge the battery with the excess energy. Lastly, the stored energy can be released when needed.
With a 10kW solar system, businesses, manufacturing facilities, and offices can operate independently without relying on government power. PV systems generate electricity during the day, which is initially supplied to loads. Hybrid Inverters will then charge the battery with the excess energy. Lastly, the stored energy can be released when needed.
On-grid PV systems are those that utilize utility (grid) power - whether for utility, commercial, residential or stand-alone buildings. On-grid systems are designed to partially or entirely satisfy a user's energy needs, thereby offsetting utility grid energy demand.

<table>
<thead>
<tr>
<th>SKU</th>
<th>Product</th>
<th>Specification</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11549</td>
<td>Half Mono Solar Panel</td>
<td>410W with 1 meter cable</td>
<td>12</td>
</tr>
<tr>
<td>11370</td>
<td>Single Phase On-Grid Solar Inverter</td>
<td>5kW</td>
<td>1</td>
</tr>
</tbody>
</table>

On-grid Solar System

4.92 kWp
Light Industrial Solar System

Three Phase On Grid/ Off Grid Solar Inverter

8kW
VT-6608303
SKU 11375
03 YEAR WARRANTY

- Lead-acid/ Lithium battery
- Battery reverse protection
- IP66 rating
- Smart energy management
- Zero export function (Integrated)

Smart ESS Solution

20kWh
VT-204100B-W
SKU 11527
05 YEAR WARRANTY

- Intelligent BMS monitoring for all-round protection
- Overcurrent protection
- A-grade LFP cells, ensuring safety of the battery
- In-built App to monitor and track battery capacity
- 6000 cycle lifespan with a 10 year warranty
- Easy installation with wall-mounted latches
Solar Accessories

Compatible with all V-TAC Solar Systems

<table>
<thead>
<tr>
<th>Product</th>
<th>SKU</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>END CLAMP 35MM</td>
<td>11388</td>
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</tr>
<tr>
<td>MIDDLE CLAMP 35MM</td>
<td>11389</td>
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<tr>
<td>SILVER RAIL</td>
<td>11390</td>
<td>1.2 METER</td>
</tr>
<tr>
<td></td>
<td>11391</td>
<td>2 METERS</td>
</tr>
<tr>
<td>ROOFTOP HOOK-01</td>
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<td></td>
<td></td>
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<tr>
<td>L FEET GROUP</td>
<td>11583</td>
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<tr>
<td>STEEL HORSE-SHAPED KLIPLOCK01 SET</td>
<td>11584</td>
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<tr>
<td>STEEL HORSE-SHAPED KLIPLOCK02 SET</td>
<td>11585</td>
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<td>TT-NUT</td>
<td>11392</td>
<td></td>
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<tr>
<td>SPLICE FOR RAIL</td>
<td>11394</td>
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<tr>
<td>GROUNDING PLATE</td>
<td>11395</td>
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<tr>
<td>ADJUSTABLE FRONT LEG</td>
<td>11417</td>
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<tr>
<td>ADJUSTABLE REAR LEG (10°-15°)</td>
<td>11385</td>
<td>(15°-30°)</td>
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<td>11386</td>
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<tr>
<td>PV CABLE CONNECTOR-MC4</td>
<td>11413</td>
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<td>TRIANGLE SUPPORT-1700</td>
<td>11387</td>
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<tr>
<td>PV CABLE 100M</td>
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<tr>
<td>4 SQUARE - SKU: 11414 BLACK</td>
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<td></td>
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<tr>
<td>4 SQUARE - SKU: 11418 RED</td>
<td></td>
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</tr>
<tr>
<td>6 SQUARE - SKU: 11415 BLACK</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 SQUARE - SKU: 11419 RED</td>
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<tr>
<td>PV6 CABLE WITH MC4 CONNECTORS 2 END FOR SOLAR PANEL CONNECTION</td>
<td>11528</td>
<td></td>
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<tr>
<td>WIFI DONGLE FOR INVERTERS</td>
<td>11378</td>
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<tr>
<td>STORAGE BATTERY RACK MAX 5 LAYERS</td>
<td>11556</td>
<td>Size: 598<em>589</em>260mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Adapting Battery-VT48100E-P2</td>
</tr>
<tr>
<td>STORAGE BATTERY RACK MAX 3 LAYERS</td>
<td>11557</td>
<td>Size: 598<em>589</em>260mm</td>
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<td></td>
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<td>Adapting Battery-VT48200B</td>
</tr>
<tr>
<td>SINGLE PHASE SMART METER</td>
<td>11545</td>
<td></td>
</tr>
<tr>
<td>THREE PHASE SMART METER</td>
<td>11546</td>
<td></td>
</tr>
</tbody>
</table>

**Nominal voltage**: 220V, 230, 240V

**Current**: 5(80) A

**Reference frequency**: 50Hz or 60Hz

**Accuracy**: Class 1.0

**Operating range**: 0.85Un ~ 1.15Un

**Power consumption**: Voltage loop: ≤1W/5VA; Current loop: ≤2VA

**Nominal voltage**: 3x220~240/380~415V; 3x120~138/208~240V

**Current**: Direct access: 5(80)A; Mutual access: 1.5(6)A

**Reference frequency**: 50Hz or 60Hz

**Accuracy**: Class 1.0 for 5(80)A; Class 0.5 for 1.5(6)A

**Operating range**: 0.85Un ~ 1.15Un

**Power consumption**: ≤1W/8VA

---

V-TAC.EU | VTACEXPORTS.COM
Portable Power Solutions

**Travel**
Stay powered and connected. Charge your devices anywhere — less time worrying about running low on battery and more time enjoying your trip.

- Drone
- Camera
- Laptop

**Leisure**
New spot for your hobbies? Or just a new space for the family to hang out in? Power up your new space of comfort and fun.

- Fan
- Electric Grill
- Mini Cooler

**Home**
Say goodbye to the inconvenience of sudden outages — power up your basic home appliances whenever you need them. Also perfect for those working in flexible setups.

- Printer
- Blender
- Mobile

**Professional**
Ideal for power tools, workshops, renovations, construction, outdoor house cleaning, and outdoor events.

- Drill
- Chainsaw
- Tools
High Capacity Power
High-performance, high safety and high power lithium iron phosphate cell

LED Light For Camping
A must-have tool when camping or attending outdoor events

Wireless & Faster Charge
Charging wirelessly and supporting QC3.0 quick charging
Portable Power Solutions

300W
VT-303
SKU 11441

AUXILIARY CHARGE OUTPUT
AC OUTPUT
HIGH EFFICIENCY
POWER DELIVERY
QC 3.0
18W

500W
VT-606
SKU 11442

1000W
VT-1001
SKU 11443

2000W
VT-2002
SKU 11445

MPPT
Solar energy charging maximum power point tracking

SUITCASE DESIGN
A trolley-shaped design makes it easy to carry wherever you go

AUXILIARY CHARGE OUTPUT
AC OUTPUT
HIGH EFFICIENCY
POWER DELIVERY
QC 3.0
18W
LED LIGHT
500 LM
WIRELESS CHARGE OUTPUT
15W
Flexible & Folding Solar Panels
Compatible with all Portable Power Stations

Flexible Solar Panels

100W
VT-10100
SKU 11568

- Power: 100W
- Size: 980*586*2.7mm
- Working voltage: 17V
- Working current: 5.88A

210W
VT-10210
SKU 11569

- Power: 210W
- Size: 1035*1035*2.7mm
- Working voltage: 20.5V
- Working current: 10.24A

- Portable, Foldable, and Adjustable
  Designed with an adjustable kickstand, seamlessly install the panels and get the best angle while solar charging. When you’re done charging, just fold the panels and bring them everywhere you go.

- Built to Last
  Designed to withstand scratches and poor weather, the ultra-durable solar panels are ideal for the outdoors and come in handy during power outages.

Folding Solar Panels

80W
VT-10080
SKU 11564

- Battery type: Monocrystalline solar cells
- Folding method: 1*4 fold
- Folded size: 366*356*54mm±5mm
- Expanded Size: 1670*356*25mm±5mm
- Weight (NW): 4.3KG±0.5KG
- Standard working Voltage: 17.6V
- Standard Working Current: 4.54A

120W
VT-10120
SKU 11446

- Battery type: Monocrystalline solar cells
- Folding method: 1*4 fold x 2pieces
- Folded size: 430*540*54mm±5mm
- Expanded Size: 1930*430*25mm±5mm
- Weight (NW): 4.0Kg±0.3Kg
- Standard working Voltage: 17.6V
- Standard Working Current: 6.36A

120x2W
VT-10140
SKU 11565

- Battery type: Monocrystalline solar cells
- Folding method: 1*4 fold x 2pieces
- Folded size: 430*540*54mm±5mm
- Expanded Size: 1930*430*25mm±5mm
- Weight (NW): 4.0Kg±0.3Kg
- Standard working Voltage: 17.6V
- Standard Working Current: 9.08A

160W
VT-10160
SKU 11566

- Battery type: Monocrystalline solar cells
- Folding method: 1*4 fold
- Folded size: 680*468*54mm±5mm
- Expanded Size: 1670*680*25mm±5mm
- Weight (NW): 6KG±0.5KG
- Standard working Voltage: 17.6V
- Standard Working Current: 9.08A

Portable power supply 2in1
SKU 11573

03 YEAR WARRANTY

• Built to Last
  Designed to withstand scratches and poor weather, the ultra-durable solar panels are ideal for the outdoors and come in handy during power outages.

Flexible Solar Panels

Portable power supply 2in1
SKU 11573

03 YEAR WARRANTY