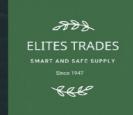
CATALOGUE

SOLAR ENERGY



Meaningful Innovation.



WELCOME TO



Elites Trades Lighting Elites Trades Digital

Elites Trades Audio Elites Trades Solar

Elites Trades Electrical Elites Trades Smart

E T 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.

Elites Trades Energy







2009

ET was founded with the vision of providing energy-effi-cient LED lighting solutions worldwide

2011

Began our EU expansion by opening the first ET warehouse and office in Dubai, UAE.

2013

Started building our distribution network in the UK from our office in Southall, London. 2015

Launched our in-house product testing lab in USA.

2016

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

2017

In-brand partnership with Samsung. Launched the ET Pro series.

2022

Progressed into the green energy era with our new Solar products range

2021

Centralized warehouse in Bulgaria extended to 42000 + sq mts.

2020

- New website launch
 Opened new office in
- Geramany.

2019

Opened new office in Turkey.

2018

- Partnership with Tuya and launched new Smart Series
 Unveiled the new ET Showroom in Slough, UK



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.



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. ET '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.



ELITES TRADES

feaningful Innovation.

Solar Panels



E T 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 to guarantees that optimal power output will still be achieved even after decades of installation.



WARRANTY

HALF-CUT TECHNOLOGY

Unique circuit design to reduce temperature heat spots



SIGNIFICANTLY AVOIDING HEAT SPOT

LINEAR POWER OUTPUT

The unique circuit design to reduce the temperature 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.

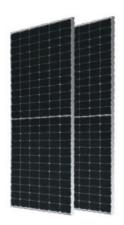






Solar Panels





SILVER FRAME SOLAR PANEL

410W ET-410 SKU 11518

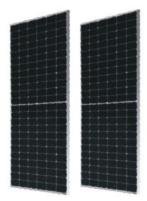
1 meter

MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	108 (12*9)
Dimensions	D:1722*1134*35mm
Weight	21.50kg
Junction box	IP67/IP68 3diodes
Operating Temperature	-40~+85°C
Qty Per Pallet	31pcs/pallet

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



SILVER FRAME SOLAR PANEL

410W ET-410 SKU 11517

1 meter

SLIM **DESIGN**

MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	108 (12*9)
Dimensions	D: 1722*1134*30mm
Weight	21.50kg
Junction box	IP67/IP68 3diodes
Operating Temperature	-40~+85°C
Qty Per Pallet	37pcs/pallet

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



BLACK SOLAR PANEL

410WET -410
SKU 11519

1 meter

MECHANICAL CHARACTERISTICS

 Cell Type
 182*91 Mono

 No. of Cells
 108 (12*9)

 Dimensions
 D:1722*1134*35mm

 Weight
 21.50kg

 Junction box
 IP67/IP68 3diodes

 Operating Temperature
 -40~+85°C

 Qty Per Pallet
 31pcs/pallet

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



BLACK FRAME SOLAR PANEL

410W ET-410 SKU 11561

1 meter

MECHANICAL CHARACTERISTICS

 Cell Type
 182*91 Mono

 No. of Cells
 108 (12*9)

 Dimensions
 D:1722*1134*35mm

 Weight
 21.50kg

 Junction box
 IP67/IP68 3diodes

 Operating Temperature
 -40~+85°C

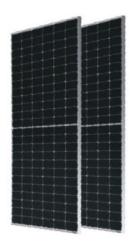
 Qty Per Pallet
 31pcs/pallet

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

Solar Panels





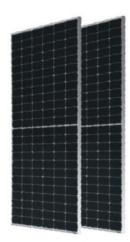
450W ET-450W SKU 11353

MECHANICAL CHARACTERISTICS

Cell Type	166*83 Mono
No. of Cells	144 (12*12)
Dimensions	2094*1038*35mm
Weight	23.50kg
Junction box	IP67/IP68 3diodes
Operating Temperature	-40~+85°C
Qty Per Pallet	31pcs/pallet

ELECTRICAL DATA (STC)

Peak Power(Pmax)	450.00
Maximum Power Voltage(Vmp)	41.50
Maximum Power Current(Imp)	10.85
Open Circuit Voltage(Voc)	49.30±3%
Short Circuit Current(Isc)	11.60±3%
Module Efficiency(%)	20.70



545W ET-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~+85°C
Qty Per Pallet	31pcs/pallet

ELECTRICAL DATA (STC)

Peak Power(Pmax)	545.00
Maximum Power Voltage(Vmp)	41.93
Maximum Power Current(Imp)	13.00
Open Circuit Voltage(Voc)	49.90±3%
Short Circuit Current(Isc)	13.92±3%
Module Efficiency(%)	21.08



665W ET-665W SKU 11544

MECHANICAL CHARACTERISTICS

Cell Type	210*105 Mono
No. of Cells	132 (12*11)
Dimensions	2384*1303*35mm
Weight	33.90kg
Junction box	IP67/IP68 3diodes
Operating Temperature	-40~+85°C
Oty Per Pallet	31ncs/pallet

ELECTRICAL DATA (STC)

Peak Power(Pmax)	665.00
Maximum Power Voltage(Vmp)	38.00
Maximum Power Current(Imp)	17.50
Open Circuit Voltage(Voc)	45.80±3%
Short Circuit Current(Isc)	18.58±3%
Module Efficiency(%)	21.40



ET 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 11562







4.92 kW/SET

410W X 12

Slim Half Mono Solar Panel D:1722*1134*30MM

SKU 11549





4.92 kW/SET

410W X 12

Half Mono Solar Panel D:1722*1134*35MM

SKU 11550





4.95 kW/SET

450W X 11

Half Mono Solar Panel D:2094*1038*35MM

SKU 11553



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.



Rack Mounting

Lithium Battery







51.2V VOLTAGE



Perfect compatibility & expandability



High performance & efficiency



Easy installation



Long-life lithium Battery



9.60kWh
48200B
SKU 11523



O5 WARRANTY



Indoor

Wall Mounting

Batteries







51.2V

VOLTAGE



5kWh

AT48-100H LiFePO4 Battery Pack

VT-5139 KU: 11448







10kWh

AT48-200H LiFePO4 Battery Pack

VT-10240 SKU: 11447







Weatherproof

Wall Mounting

Batteries





VT-48100-W: SKU 11524





VOLTAGE



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



Overcurrent protection



In-built App to monitor and track battery capacity



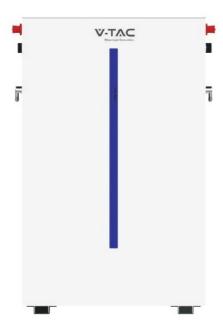
Easy installation with wall-mounted latches



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.

Battery Storage



Waterproof

Wall Mounting

Batteries



7.64kWhVT-48160
SKU 11548







	General Parameters	Additional Information
Combination method	15S1P	LiFePO4
Rated capacity	Typical 161Ah minimum 158Ah	0.2°C,@25°C
Rated voltage	48V	
Voltage at end of discharge	42V	Discharge Cut-off voltage
Standard charge current	32A	Charge time : Approx 6h
Limiting current	20A	Software opening



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.

Solar System



Hybrid

Solar System



SKU	Product	Specification	Quantity
11549	Half Mono Solar Panel	410W with 1 meter cable	12
11547	Single Phase Hybrid Solar Inverter	5kW	1
11448	LiFePO4 Battery Pack	AT48-100H	1
	Assorted Accessories		

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.

Solar System



Hybrid

Solar System





LiFePO4 Battery

Hybrid Inverter

Half Mono Solar Panels

SKU	Product	Specification	Quantity
11549	Half Mono Solar Panel	410W with 1 meter cable	24
11542	Three Phase Hybrid Solar Inverter	10kW	1
11447	LiFePO4 Battery Pack	AT48-200H	1
	Assorted Accessories		

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.

Solar System



On-grid



Solar Inverter

Half Mono Solar Panels

SKU	Product	Specification	Quantity
11549	Half Mono Solar Panel	410W with 1 meter cable	12
11370	Single Phase On-Grid Solar Inverter	5kW	1
	Assorted Accessories		

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.

Light Industrial Solar System





Three Phase On Grid/ Off Grid Solar Inverter







Lead-acid/ Lithium battery



Battery reverse protection



IP66 rating



Smart energy management



Zero export function (Integrated)



Smart ESS Solution







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

Elites Trades

Meaningful Innovation.

Compatible with all V-TAC Solar Systems

END CLAMP 35MM



MIDDLE CLAMP 35MM SKU: 11389



SILVER RAIL 1.2 METER SKU: 11390 2 METERS SKU: 11538



ROOFTOP HOOK-01 SKU: 11391



L FEET GROUP SKU: 11583



STEEL HORSE-SHAPED KLIPLOCKO1 SET SKU: 11584



STEEL HORSE-SHAPED KLIPLOCK 02 SET SKU: 11585



TT-NUT SKU: 11392



SPLICE FOR RAIL



GROUNDING PLATE SKU: 11395



ADJUSTABLE FRONT LEG SKU: 11417



ADJUSTABLE REAR LEG (10°-15°) SKU: 11385 (15°-30°) SKU: 11386



PV CABLE CONNECTOR-MC4 SKU: 11413



TRIANGLE SUPP ORT-1700 SKU: 11387



PV CABLE 100M

4 SQUARE - SKU: 11414 BLACK 4 SQUARE - SKU: 11418 RED 6 SQUARE - SKU: 11415 BLACK 6 SQUARE - SKU: 11419 RED



PV6 CABLE WITH MC4 CONNECTORS 2 END FOR SOLAR PANEL CONNECTION 1 METER SKU: 11570



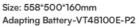
WIFI DONGLE FOR INVERTERS SKU 11528



SKU 11378



STORAGE BATTERY RACK MAX 5 LAYERS SKU 11556





STORAGE BATTERY RACK MAX 3 LAYERS SKU 11557

Size: 598*589*260mm Adapting Battery-VT48200B



SINGLE PHASE SMART METER





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

THREE PHASE SMART METER

SKU: 11546



	1.
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

Portable Power



Meaningful Innovation.

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

Elites Trades

Portable Power Solutions

Meaningful Innovation.

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



VT-2002 SKU 11445

2000W

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

Elites Trades

Meaningful Innovation.

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 Size Working voltage Working current

210W 1035*1035*2.7mm 20.5V, 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 Folding method Folded size Expanded Size Weight (NW) Standard working Voltage

Monocrystalline solar cells 1*4 fold

366*356*54mm±5mm 1670*356*25mm±5mm 4.3KG+0.5KG

17.6V Standard Working Current 4.54A

VT-10240 120x2V SKU 11565 With 2in1 Cable

Battery type Folding method Folded size **Expanded Size** Weight (NW) Standard working Voltage

Standard Working Current

Monocrystalline solar cells 1*4 fold x 2pieces 430*540*54mm±5mm 1930*430*25mm±5mm 4.0Kg±0.3Kg 17.6V 12.72

120W

Folded size

VT-10120 SKU 11446 Monocrystalline solar cells Battery type Folding method 1*4 fold

1930*430*25mm±5mm Expanded Size 4.0Kg±0.3Kg Weight (NW) Standard working Voltage 17.6V Standard Working Current

6.36A

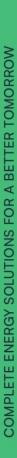
430*540*54mm±5mm

160W

VT-10160

SKU 11566 With 2in1 Cable Monocrystalline solar cells Battery type

Folding method 1*4 fold 680*468*54mm±5mm Folded size Expanded Size 1670*680*25mm±5mm Weight (NW) 6KG±05KG 17.6V Standard working Voltage Standard Working Current 9.08A



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Germany Office

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Turkey Office

Ertugrul Gazi Sokak No:2/E A Block Metropol

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