



The ATC Range of **Solar Technology**

Clean Energy Solutions

atc[®]
RENEWABLES

Introduction

ATC are award winning providers of clean energy solutions.

Our Mission

ATC provides clean energy solutions to improve the comfort and well-being of society for future generations. For over 30 years, we have inspired trust in our partners and through our talented people, we are dedicated to delivering outstanding service and support.

Innovative – In a dynamic market, our in-house team of product developers are always researching the latest technology that can be adopted to improve our range of energy efficient products.

Efficient – Providing outstanding customer service in support of our energy efficient products is at the centre of what we do.

Controllable – Our products are built with user control in mind. This improves usability and ensures that energy usage is optimised – only being used when required, minimising waste and reducing costs.

Smart – We believe connected product ranges are the way forward. Smart features offer a variety of controllability options, enhancing the user experience and improving overall efficiency and effectiveness.

Consumer Led – Listening to the specific needs of our customers is important to us. This ensures emerging customer needs are met through new and improved product ranges, helping to reduce costs and carbon emissions, one customer at a time.



ATC Partners with GoodWe Powering the Future Together

ATC is proud to announce a new strategic partnership with GoodWe, a global leader in PV inverters and smart energy storage solutions.

This collaboration marks an exciting step forward in our shared mission to deliver smarter, more efficient, and sustainable renewable energy systems across all sectors.

Why GoodWe?

Global Leadership – Recognized by BloombergNEF as a Global Tier 1 Power Inverter Manufacturer (Q2 2025), trusted by customers and banks worldwide.

Proven Quality – GoodWe products are certified by TÜV Rheinland, CSA, UL, and CNAS, meeting the highest international safety and performance standards.

Innovation at Scale – With over 1,000 R&D engineers and continuous investment in product development, GoodWe delivers reliable and future-ready solutions.

Comprehensive Solutions – Covering residential, commercial, industrial, and utility-scale applications, ensuring seamless integration across all energy needs.

Global Reach – Operating in over 100 countries, GoodWe provides strong local support and service to ensure reliability and customer satisfaction.

Commitment to Excellence

GoodWe's systems undergo rigorous testing and quality assurance through leading international institutions. Every product is designed for efficiency, safety, and long-term dependability, ensuring consistent performance in diverse conditions.

Shared Vision for a Sustainable Future

GoodWe's systems undergo rigorous testing and quality assurance through leading international institutions. Every product is designed for efficiency, safety, and long-term dependability, ensuring consistent performance in diverse conditions.

- Global Tier 1 Power Inverter Manufacturer – BloombergNEF, Q2 2025
- Tier 1 PV Inverter Supplier – S&P Global Commodity Insights, 2025
- Global No.1 Storage Inverter Supplier – Wood Mackenzie, 2020
- Top 10 Inverter Supplier Worldwide – IHS Markit
- 7 Consecutive TÜV Rheinland 'All Quality Matters' Awards

- **No.1 bankable brand for 4 consecutive years.**
- **The ONLY inverter supplier ranked 100% bankable.**
- **No.1 in global PV inverter shipment.**
- **Largest dedicated R&D team in the industry.**

GOODWE
The Smart Energy Innovator

Recognized for Bankability & Reliability

GoodWe's inclusion in BloombergNEF's Tier 1 list reflects its strong financial stability, proven project track record and trusted performance in global financed installations.



- **Proven Bankability**
- **Trusted by Leading Global EPCs & Financiers**

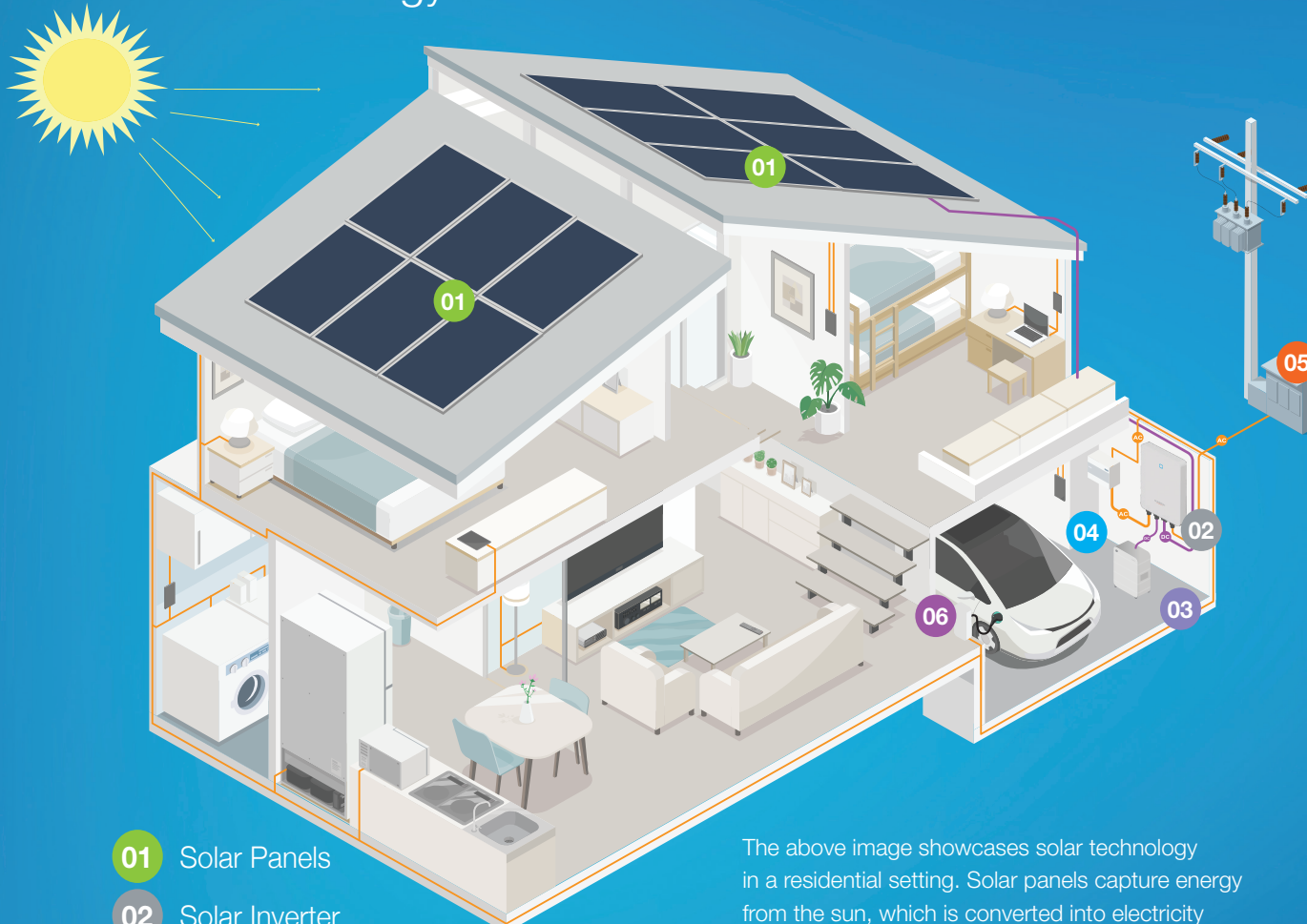


- **Strong Local Support Network**



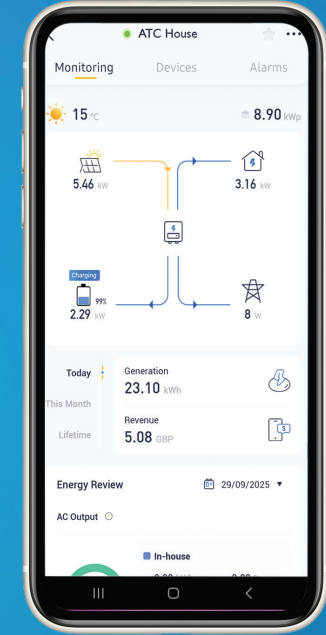
- **Certified Product Reliability**

Solar Technology



- 01 Solar Panels
- 02 Solar Inverter
- 03 Battery
- 04 Switch Board
- 05 Electricity Grid
- 06 AC Car Charger

The above image showcases solar technology in a residential setting. Solar panels capture energy from the sun, which is converted into electricity by inverters, and used to power home appliances and heating systems. Even electric vehicles are covered, through the use of a domestic EV charger. Surplus energy which is not used is diverted to battery storage or redistributed to the electricity grid.



SEMS+App
Goodwe SEMS+ is a user-friendly App which offers functions such as PV system monitoring, plant device management, troubleshooting notifications and remote control, all available at a touch of a fingertip.





Sems+ Free, Smart and Easy to Use

SEMS+ Server is the intelligent core of the SEMS+ platform, delivering fast, secure, and reliable data processing for solar systems. It gathers real-time performance data across multiple plants, giving operators instant insights and advanced analytics for smarter management and maximum energy yield.



Fast
The SolarGo app guides you through commissioning in a breeze.



Safe
Your data is secured on a European server; 100% GDPR compliant.



Smart
Benefit from remote parameter setting and troubleshooting from wherever you are.



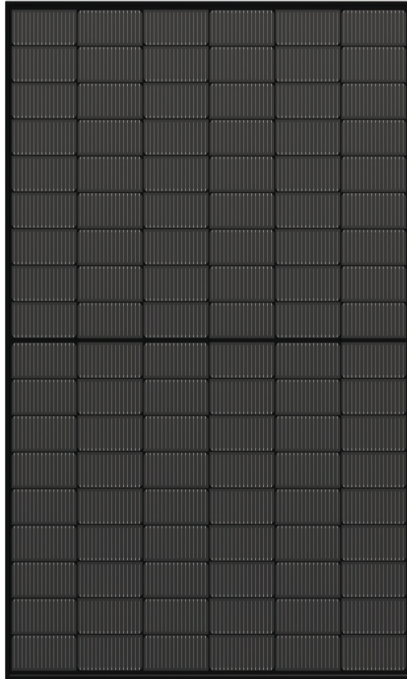
Easy
Enjoy the most user-friendly monitoring with graphs and Information.



Future-proof
Be up to speed with the newest features and latest updates.

N-Type Residential Panel

PVP-BB-BI Series (Bi-Facial)



PVP445W-BB-BI-DS

Bifacial Double Glass Module (Black Thru)

Key Features

- **Power Output 430-455W**
- **Max Efficiency 22.8%**
- **Bifacial Double Glass Module**
- **Annual degradation: 0.40%**

Key Features

High Efficiency



Leading module efficiency in industry, up to 22.8%.

Excellent Appearance and Performance



Bifacial solar cell, symmetrical design, low risk of micro-crack

Excellent Rear Side Power Generation



Bifaciality is up to 80%, up to 30% more energy yield than conventional modules

Better Low Irradiance Performance



Lower operating temperature and higher power output even under low irradiance environments like on cloudy or foggy days

Extensive Application Scenes



More extensive application scenes, such as BIPV, snow field, vertical installation, high humidity, strong wind and desert region

Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

ISO 45001: Occupational Health and Safety Management System

IEC 62716, IEC 6170, Ammonia, Salt mist corrosion test

IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



15
YEAR PRODUCT
WARRANTY



30
YEAR LINEAR
POWER WARRANTY

Mechanical Parameters

Cell Type	N Type
Module Size	1762×1134×30mm
Glass Thickness	1.6mm + 1.6mm
Module Weight	21.6Kg
Output Cable	4mm ² , cable length 1200mm
Connector	Original MC4 Series
Junction Box	IIP68, 3 bypass diodes
Frame	Anodized aluminium alloy (Black)

Electrical Characteristics

Values may change depending on output wattage

Module Type	PVP-BB-N Series	
Testing Condition	STC	NMOT
Maximum Power (Pmax/W)	445	339
Optimum Operating Voltage (Vmp/V)	29.83	28.19
Optimum Operating Current (Imp/A)	14.92	12.03
Open Circuit Voltage (Voc/V)	35.11	33.61
Short Circuit Current (Isc/A)	16.01	12.9
Module Efficiency (%)	22.8%	

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5; NMOT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind speed 1m/s; Test condition is based on the front side.

Packing Configuration

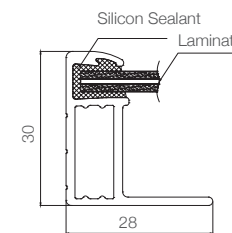
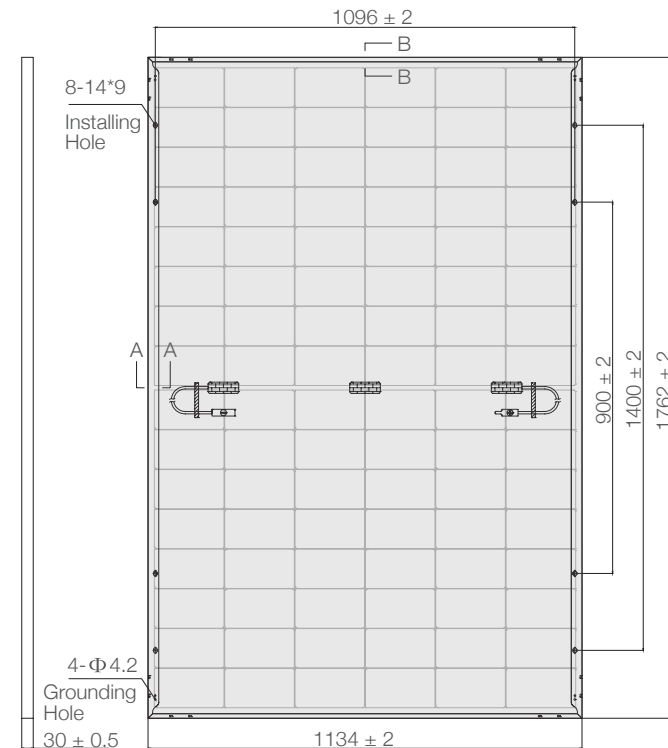
Container	40' HC
Pieces per pallet	36
Pallets per container	26
Pieces per container	936
Packaging box dimensions	1755 × 1120 × 1255mm
Packaging box weight	794kg

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.

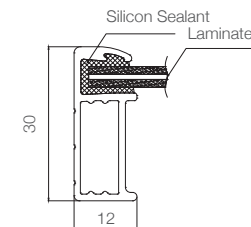
Temperature Coefficients

Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.250%/°C
Nominal Max. Power(Pmax)	-0.280%/°C
NMOT	42±2°C

Engineering Drawing (mm)



A Long Frame



B Short Frame

Inverters Residential

Invertors Residential Hybrid ES-G2-Series



Key Features

- **High Performance**
150% DC / 110% AC input for higher energy yield.
22 A input current to support high-power solar modules.
Low start-up voltage for longer daily production time.
- **Safety**
IP66 dust and water resistance for outdoor durability
- **Smart & Flexible**
Dual MPPTs for optimal tracking efficiency.
Intelligent monitoring and export control for smart energy management.
Compact, fanless, and quiet design for easy installation and operation.
- **3 Sizes available**
GW3600-ES-20, GW5000-ES-20, GW6000-ES-20.

Single Phase Hybrid 8-12kW ES-Upiq-Series



Key Features

- **High Performance**
Up to 200% DC oversizing 20 A input for high-power modules.
Low start-up voltage for longer production.
- **Safety**
AI-driven AFCI & Type II SPD.
IP66 dust & water protection.
- **Smart & Flexible**
Dual MPPTs for optimal yield
< 4 ms backup switching.
3-in-1 port: grid, generator & smart load.
Compact, fanless, quiet design.
- **6 sizes available**
GW8000-ES-C10, GW10K-ES-C10
GW12K-ES-C10.

3-Phase Hybrid ET-G2 Series 6-15Kw



Key Features

- **High Performance**
Up to 160% PV oversizing.
16 A input for high-power modules.
98.2% max efficiency.
- **Safety**
AI-driven AFCI 3.0 protection.
Type II SPD (AC & DC).
IP66 weatherproof design.
- **Smart & Flexible**
Dual / triple MPPTs for higher yield
<10 ms backup switch.
Wide battery range (150–720 V).
Compact, fanless, quiet design.
- **5 Sizes available**
GW6000-ET-20, GW8000-ET-20,
GW10K-ET-20, GW12K-ET-20,
GW15K-ET-20.



10
YEAR
WARRANTY
WHEN GOODWE+
INSTALLERS
ARE USED

Inverters Residential Hybrid

1-Phase Hybrid ESA Series

Introducing Goodwe's ESA Series All-In-One Hybrid inverter and battery system. The ESA offers a compact, discreet and attractive solution for homeowners with quick and simple installation for installers. This product boasts many innovations with performance, safety and ease in mind coupled with unique features for seamless home energy operation and backup.



Key Features

- **High Performance**
 - Residential single-phase All-in-One solution.
 - 200% DC oversizing.
 - 20A input for today's high-powered modules.
 - 5.1 & 8.3 kWh battery modules with 1C- charge and discharge rate.
- **Safety**
 - AI-driven AFCI 3.0 protection.
 - IP66 weatherproof & fanless design
 - <4 ms backup switching.
- **Smart & Flexible**
 - Dedicated AC port for emergency backup.
 - Simplified integration for dedicated loads backup or full changeover.
 - 4 ms switching time for seamless backup.
 - Up to 63A Backup output for whole home.
 - Mixed battery configuration possible, up to 48kWh.
 - On-grid & Off-grid (backup) parallel solution up to 6 units.
 - Smart operation modes including seasonal Time Of Use for night-rate charging and scheduled discharging.
 - Microgrid & AC-coupling scenarios possible.
 - Accessories kit includes smart meter and Wi-Fi+Ethernet dongle.
 - Blind plug design with no visible connections/accessories.
 - 10-year warranty.
- **6 Sizes Available** (Power Module)
 - GW3.6K-EHA-G20, GW5K-EHA-G20
 - GW6K-EHA-G20, GW8K-EHA-G20
 - GW10K-EHA-G20.
- **2 Sizes Available** (Battery Module)
 - GW5.1-BAT-D-G20, GW8.3-BAT- D-G20.



Inverters 3-Phase Commercial String

SDT G3 Series 4-20Kw



Key Features

- **High Yield**
Wide range of DC inputs. 8-10 MPPT with 2 string per MPPT.
Up to 1100v max voltage with 200% DC oversizing.
- **Smart O&M**
Key component diagnosis and protection.
- **User Friendly**
Plug and play installation.
Wide range of smart meter options available.
- **Safe to Use**
IP66 protection and C5 anti-corrosion.
- **7 Sizes Available**
GW4000-SDT-30, GW5000-SDT-30,
GW6000-SDT-30, GW8000-SDT-30
GW10K-SDT-30, GW15K-SDT-30
GW20K-SDT-30.

SMT Series 25-60Kw



Key Features

- **High Yield**
Wide range of DC inputs. 3 MPPT with 2 string per MPPT (25-36kw), 5-6 MPPT with 2 string (50-60kw) variants.
Up to 1100v max voltage with 200% DC oversizing.
- **Smart O&M**
Key component diagnosis and protection.
- **User Friendly**
Plug and play installation.
Wide range of smart meter options available.
- **Safe to Use**
IP66 protection and C5 anti-corrosion.
- **5 Sizes Available**
GW25K-MT, GW30K-MT, GW36K-MT
GW50K-MT, GW60K-MT.

GT Series 100-125Kw



Key Features

- **High Yield**
Wide range of DC inputs. 8-10 MPPT with 2 string per MPPT.
Up to 1100v max voltage with 200% DC oversizing.
- **Smart O&M**
Key component diagnosis and protection.
- **User Friendly**
Plug and play installation.
Wide range of smart meter options available.
- **Safe to Use**
IP66 protection and C5 anti-corrosion.
- **2 Sizes Available**
GW100-GT, GW125-GT
150 & 200kw versions available Q2 2026.



10
YEAR
WARRANTY
WHEN GOODWE+
INSTALLERS
ARE USED

Inverters 3-Phase Commercial Hybrid HV

ET G2 Series 6-15Kw (HV)



Key Features

- **High Yield**
Wide range of DC inputs ranging from 2-3 MPPT, up to 1000v max voltage with 200% DC oversizing.
- **Smart O&M**
Key component diagnosis and protection.
- **User Friendly**
Plug and play installation.
Wide range of smart meter options available.
- **Safe to Use**
IP66 protection and C5 anti-corrosion.
- **5 Sizes Available**
GW6000-ET-20, GW8000-ET-20,
GW10K-ET-20, GW12K-ET-20
GW15K-ET-20.

ET Series 20-30kW (HV)



Key Features

- **High Yield**
Wide range of DC inputs ranging from 2-3 MPPT (2 String per MPPT), up to 1000v max voltage with 200% DC oversizing.
- **Smart O&M**
Key component diagnosis and protection.
- **User Friendly**
Plug and play installation.
Wide range of smart meter options available.
- **Safe to Use**
IP66 protection and C5 anti-corrosion.
- **3 Sizes Available**
GW20K-ET, GW25K-ET, GW30K-ET.

ET Series 40-50Kw (HV)



Key Features

- **High Yield**
Wide range of DC inputs ranging from 3-4 MPPT (2 String per MPPT), up to 1000v max voltage with 200% DC oversizing.
- **Smart O&M**
Key component diagnosis and protection.
- **User Friendly**
Plug and play installation.
Wide range of smart meter options available.
- **Safe to Use**
IP66 protection and C5 anti-corrosion.
- **2 Sizes Available**
GW40K-ET-10, GW50K-ET-10
75kw & 100kw versions available Q2 2026.



Batteries

Lynx U G3 Series 5.12 LV Battery



Key Features

- **Scalable Energy Storage**
Modular design allows up to 30 units in parallel, scaling from 5 kWh up to 150 kWh.
- **Safe & Efficient Chemistries**
Uses LiFePO₄ (LFP) battery cells for stability, long life, and safety.
- **Strong Charge/Discharge Rates**
Up to 90 A charging and 100 A discharging for high performance.
- **Low Voltage Design**
Operates at low voltage, which enhances safety and system compatibility.
- **Compact & Integratable**
Compact footprint with integrated Battery Management System (BMS).

ET 15-50 Kw Battery



Key Features

- **Modular & Scalable Design**
Stackable 5–40 kWh modules.
Plug-and-play setup for easy installation.
- **High Voltage & Efficiency**
LFP chemistry for safety and long life.
High-voltage design for reliable performance.
- **Smart Monitoring & Control**
Remote updates & diagnostics.
Auto-reboot after undervoltage.
- **Flexible Application**
Modular architecture for customizable capacity.
- **Robust Safety & Protection**
IP66 rating & thermal protection.
VDE 2510-50 compliant for proven safety.

BAT 60–112 kWh Series



Key Features

- **High Performance**
60–112 kWh high-voltage LFP battery system for C&I use.
Up to 4 units in parallel (up to 450 kWh total)
Fast charge/discharge (0.9C / 1.1C).
- **Safety & Reliability**
LiFePO₄ chemistry for long cycle life and safety.
Aerosol fire suppression & automatic dehumidification.
IP55 protection for harsh environments.
- **Smart & Flexible**
Modular, scalable design for easy expansion.
Seamless integration with GoodWe inverters & STS Ideal for backup, peak shaving & load management.











*Check GoodWe battery warranty for full details.



Brackets & Mounting




Rails & Brackets

- ATC-SR Rail 4.75M (ATC-SR-475-RAIL) 
- ATC-SR Rail 3.6M (ATC-SR-360-RAIL) 
- ATC-SR Rail 2.45M (ATC-SR-245-RAIL) 
- Black ATC-SR Rail 4.75M (ATC-SR-B-475-RAIL) 
- Black ATC-SR Rail 3.6M (ATC-SR-B-360-RAIL) 
- Black ATC-SR Rail 2.45M (ATC-SR-B-245-RAIL) 
- Black ATC-DR Rail (ATC-DR-B-475-RAIL) 
- Rail Splice Kit (ATC-DR-SP-SP) Not available in black 



Clamps

- Inter Clamp Kit 30-32mm (ATC-IC-F30-CL) 
- End Clamp Kit 30mm (ATC-EC-F30-EC) 
- GS Universal modules clamp kit 30-46mm (ATC-AC-UCL) 
- Black 30mm Inter Clamp with spring and grounding clip ATC-IC-FR30-B-CL 
- Black 30/35mm End Clamp with ridges ATC-EC-FR30-CL 

Roof Hooks

- Height Adjustable Stainless Steel Hook for Tile roofs (ATC-IK01-ADJUSTABLE) 
- Stainless Steel Hook Kit for Slate Roofs for Fixed Horizontal rails (ATC-IK-02-HOR-HOOK) 
- Slate hook with Higher Rise (ATC-IK-02-SHORT) 

Trapezoidal Roof Hooks

- U type mini rail with Self-tapping Screws and Rubber Pad (ATC-IK-UR-01-FL-HOOK) 
- 450mm flat bottom rail with screws and rubber pads (ATC-IF-FR-450-FB) 

Accessories

- 80mm Wood Screw Stainless Steel 410 St 6.3x60 With Pad (ATC-FS-W680-SCR)



- Ground Clip #1 (ATC-G-GC-CLIP))



- Ground Lug (ATC-G-GL-LUG)



- Nylon 66,Black End Cap for SR Rail (ATC-SR-SG-B)

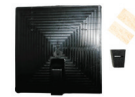


- S/S Cable Clips (2 wires) (ATC-SSCC-05-CLIP)



ATC Genius Slate Flashing

- ATC-SFS001 Slate roof flashing kit to suit ATC-IK-02-HOR-Hook



- ATC-HHK001 Hall-Hook (x10) for use with ATC-SFS001



Inverter Accessories

- EZ3000 – Smart Link Device



- GM1000/D Smart Meter Single Phase



- GMK110 /GMK110D Smart Meter Single Phase Current Transformer(s) included



- GMK330 Smart Meter 3 Phase includes 3 Current Transformers



- Static Transfer Switch for 3 Phase Hybrid Inverter – supports integration with generators.



- LoRa communication device for wireless comms between smart meter and inverter. Plug and play with GoodWe Inverters (x2 Required)



Brackets & Mounting

Clamps

- Rapid Pro Center Clamp (131020-001)
- Rapid Pro Center Clamp Black (131020-901)
- Rapid Pro End Clamp (131020-000)
- Rapid Pro End Clamp Black (131020-900)



Grounding and Lighting Plate

- Grounding and Lightning Protection (135003-022)



Mounting Clips

- Mounting Clips 1.0-3.0mm Upper Guide (149023-001)



Rail Connector and End Caps

- Pro Internal Connector (129200-000)
- Plastic End Cap Pro Grey (129200-010)
- Plastic End Cap Pro Black (129200-910)



Rails

- Module Bearing Rail Pro35 3550mm (120020-03550)
- Module Bearing Rail Pro35 4750mm (120020-04750)



Roof Hooks

- RapidA 45 Pro Max (101020-120)



Slate Roof Hooks

- Rapid2+ Pro Slate125 Roof Hooks (109019-024)
- Shingle for Roof Hook Rapid 2+ Pro Slate125 (109017-010)



Trapezoidal Roofs

- Singlefix Pro (113009-003) – 2pc required and 4 screws
- Pro35 450mm Module Support Profile (120020-00450)
- Drill Screw 6x25 Self Tapping Seal A2 (943000-360)



Trapezoidal Roofs

- Clamp Fit Pro (130004-300)



- Drill Screw 6x25 Self Tapping Seal A2 (943000-360)



Accessories

- Drill Screw 6x25 Self Tapping Seal A2 (943000-360)



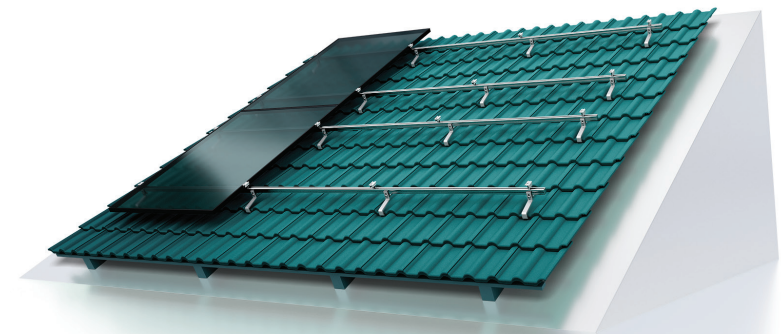
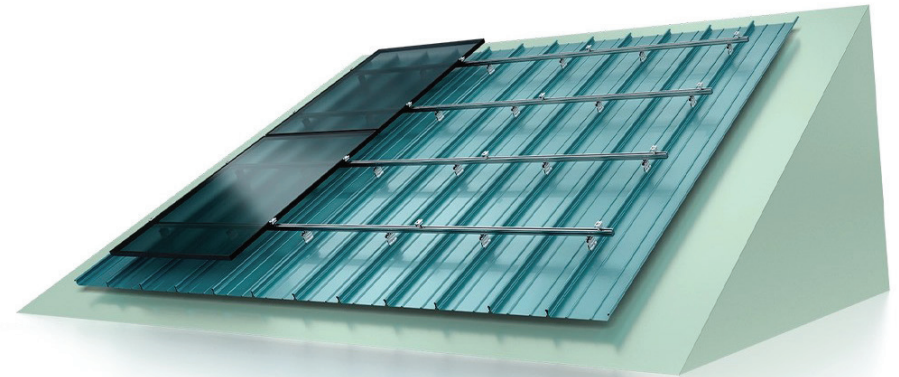
- Wood Screw Stainless Steel 8x100 (943208-100)



- Wood Screw Galvanised 8x100 (942208-100)



- Spacer Plate Roof Hook 2.5/5mm (973000-075)



YEAR WARRANTY

Optimisation & Monitoring



TS4-A-O



Key Features

Improves production, safety and intelligence in new designs and existing systems.

- **Easy to Install**
Snap to a standard PV module frame or mount to racking.
- **Intelligent Optimisation**
Optimises only when needed.
- **Smart Management**
Full visibility into module and system level production when used with the CCA and TAP kits.
- **Adaptable**
Fully compatible with thousands of different inverter models.

CCA-Kit



Key Features

The Cloud Connect Advanced (CCA) is a compact, powerful data logging and communications gateway that powers the monitoring and safety capabilities of Tigo TS4 module level power electronics (MPLE).

- **Smart Functionality**
Enables module-level monitoring through the Tigo cloud platform.
- **Full Visibility**
Collects data from up to 900 TS4s via up to 7 TAPs.
- **Fully Connected**
Connects to wired and wireless networks.
- **Live Monitoring**
Includes a multifunction LED status indicator.
- **Comprehensive Insights**
Reads data from wide range of 3rd party devices including Modbus-equipped inverters, charge controllers, weather stations, and revenue grade meters.

TAPs



Key Features

Works in conjunction with the CCA to enable compliance with NEC 2017, 2020 and 2023 690.12 rapid shutdown requirements.

- **Smart Functionality**
Wireless communication with Tigo TS4 devices & module-level monitoring through the Tigo cloud platform.
- **Seamless Connection**
Connects to Tigo Cloud Connect Advanced (CCA) via RS485 cable.
- **Easy to Install**
Simply install on the module frame, no tools needed.
- **Quick Start Up**
Use with the Tigo EI App on a mobile device for quick and easy set up.
- **Wide Network**
Connects up to 300 TS4 units – depending on layout.





Training at the ATC Academy

A hub for strengthening your knowledge of the ATC range of renewables, energy efficient heaters and hand dryers.

Who is it Designed For?

Electrical Contractors | Consulting Engineers | Architects

Book your Training Slot

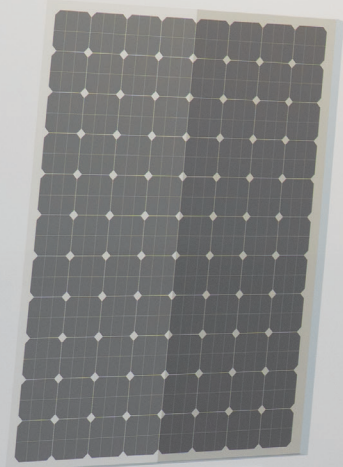
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atc ACADEMY



Clean Energy Solutions



Solar Panels



atc
RENEWABLES

GOODWE
The Smart Energy Innovator



Warranty Information
Safety Instructions

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Business Hours:
Monday – Thursday: 8.30 – 17.00
Friday: 8.30 – 16.00

atc.ie

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atc[®]



QUALITY APPROVED
COMPANY

LED GROUP

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FuseBox[®]

NATIONAL LIGHTING