

The logo for aap.tron features a stylized graphic on the left consisting of a dark grey curved shape with a yellow and orange gradient. To the right, the text 'aap.tron' is displayed in a sans-serif font, with 'aap' in red and '.tron' in grey.

aap.tron

Manufactured by
POWTRON Technologies Co., Ltd

3F., No.18, Ln. 405, Jianguo Rd., Yingge Dist., New Taipei City 239, Taiwan

www.aaptron.com
www.powtron.com.tw

Content of Presentation

01. Company Profile

02. Organization

03. Product

04. Production

Company Profile



Company Name	POWTRON Technologies Co Ltd
Headquarter & Factory	3F No.18 Ln.405 Jianguo Rd. Yingge Dist. New Taipei City 239 Taiwan
Employee	18
Capital	USD 1.7M
Product Brand	aap.tron
Business Activities	Development, Design and Manufacturing
Main Product	DC-AC Power Inverter, Combi Inverter/Charger, Battery Charger... others AC and DC models.
Approval	ISO-9001:2015

Company Organization

POWTRON



Research & Development

- * Hardware Engineering
- * Software Engineering
- * Mechanical Engineering
- * LAYOUT
- * Safety Engineering



Sales & Marketing

- * Sales
- * Shipping
- * Art Designer



Administration

- * Human Resources
- * Financial
- * Logistics



IT Center



Production

- * Maintenance Engineering
- * Quality Assurance
- * Product Assembly

Manufacturing Site

Production Capacity

Products	Monthly Capacity	No. of Employees	Production Area
POWER INVERTER	10K	18	Site: 1000m ²
OTHERS	2K		

Production

- Standard Operation Procedures

Customer Inquiry

Our sales team responds to customer's inquiry or questions, and sends a price quotation to customer. A sample may be sent for quality confirmation if needed.



Order Confirmation

Customer reviews the quotation and agrees on the offer.

Incoming Material

Definition of the manufacturing process, the workflow and the individual processes.



IPQC

IQC

AUTO-TEST



Production

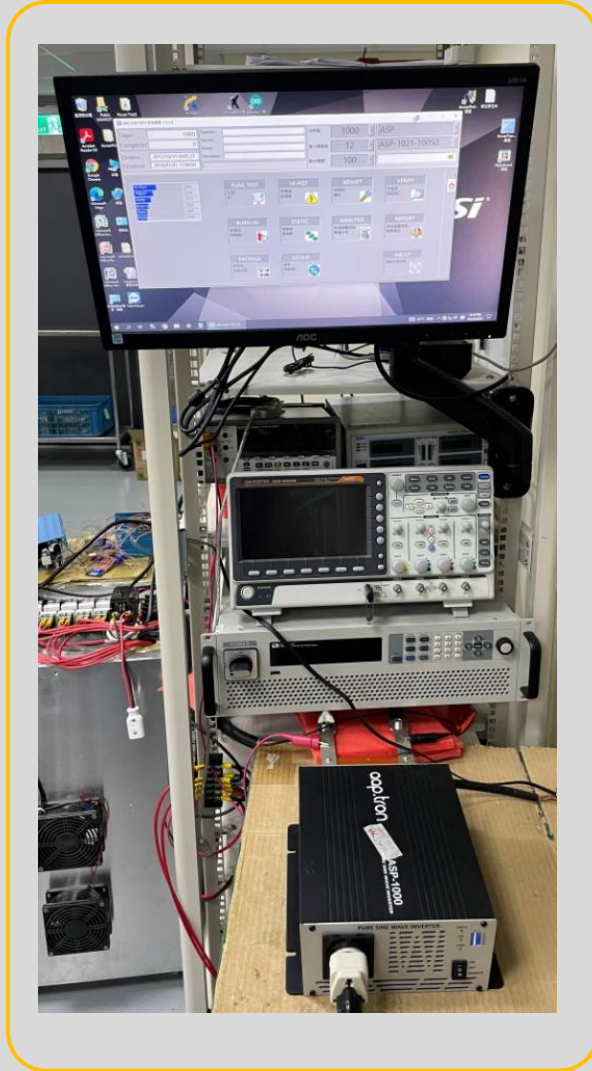


Shipping

FQC



Auto Function Production



Correction



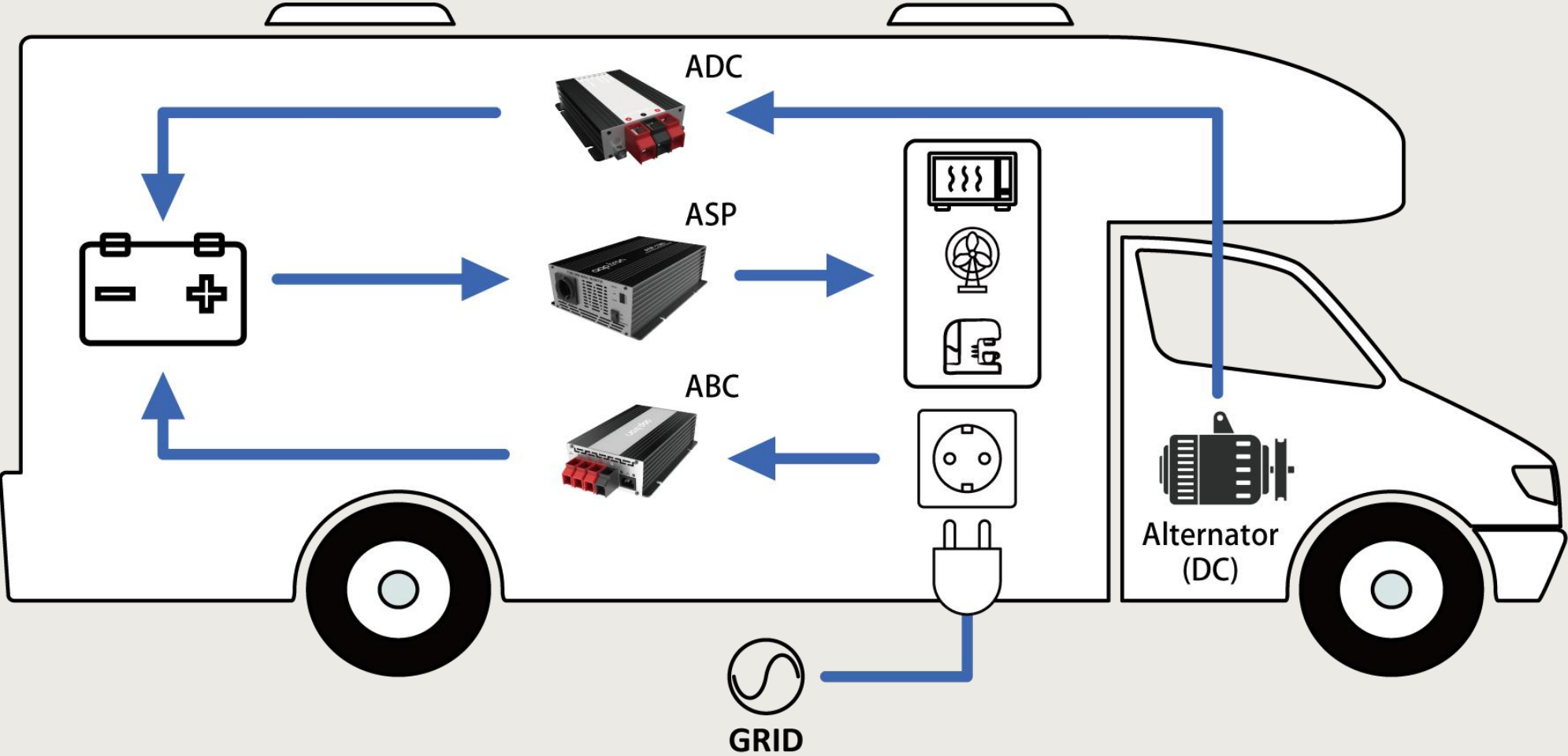
Auto-Test



Correct

Main Products

Application



Main Product Line



ASP Series

DC/AC Pure Sine Wave Inverter

700W ~ 3000W

2019



2020



2021



2022



2023



Main Product Line



ADC Series
DC/DC Charger

12V/50A & 24V/25A (Support 24V to 12V & 12V to 24V)

2019



2020



2021



2022



2023



Main Product Line



ABC Series
AC/DC Battery Charger

*12V/25A 12V/50A 12V/80A
24V/12A 24V/25A 24V/40A*

2019



2020



2021



2022



2023



Main Product Line



ASA Series (coming year 2023)

DC/AC Three or Single Phase
Parallel Pure Sine Wave Inverter

3600W



ASC Series (coming year 2023)

Parallel Combined Inverter (Inverter/Charger)

2000W

2019

2020

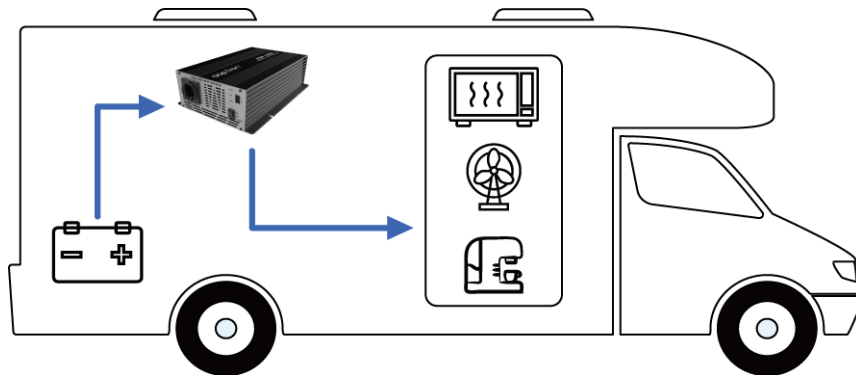
2021

2022

2023



Product strength



THD < 2.5% @resistive load)

Crest factor at nominal power > 3.5 In*
*In = **Nominal Current**

Input reverse polarity protection (Auto-recovery)

Turbo mode continuous power

Standby mode <1W @ECO Mode

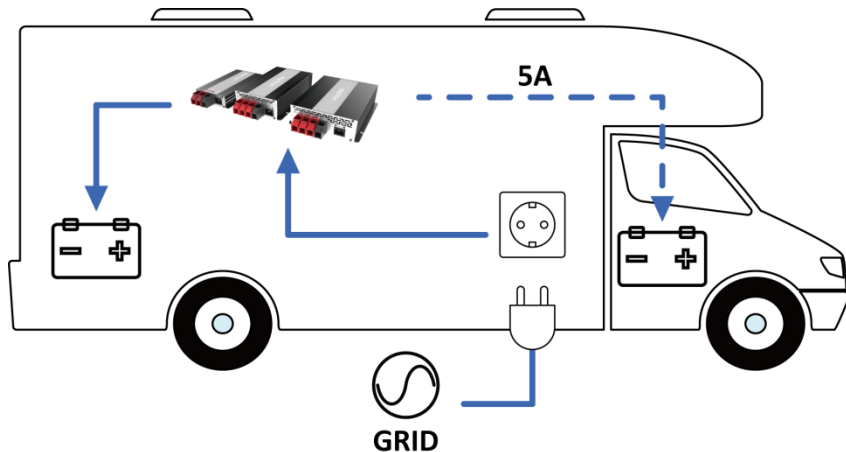
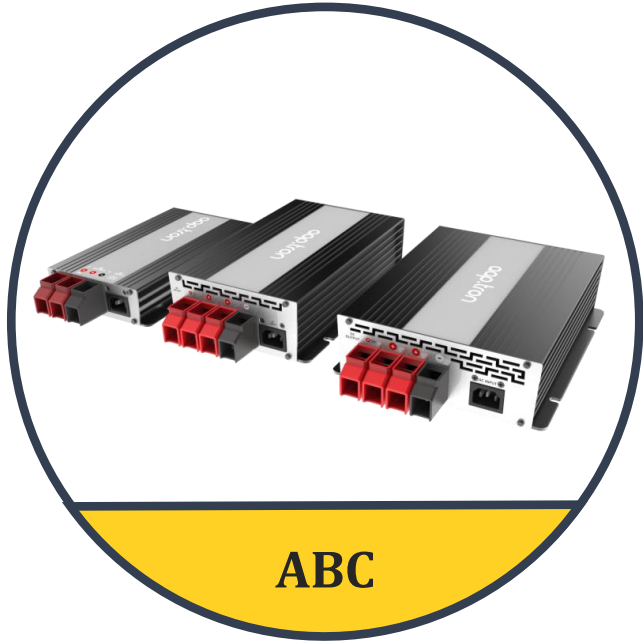
Surge power in 10 seconds

Frequency accuracy : +/-0.03%

Efficiency >90%

ISO 16750-2 & ISO 7637-2

Product strength



Built-in 5A Backup Charge

Built-in battery rescue function (Auto-recovery)

3-stage charging mode IUoU

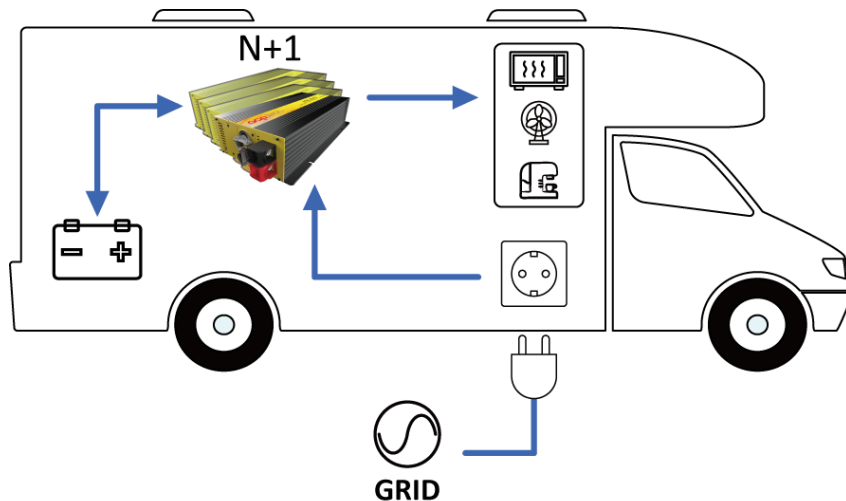
All Digital Power

Efficiency >88%

Universal AC input with active PFC>0.98

Compatible with Lead Acid, Li-ion, Gel and AGM batteries

Product strength (2023)



Bi-directional All-in-One Design

Up to 15 modules can be connected in parallel

DC input reverse polarity protection
(Auto- recovery)

Wide AC input range 150Vac to 265Vac

Crest factor at nominal power > 1
 $0 \text{ In} * * \text{In} = \text{Nominal Current}$

High efficiency up to 97% at AC Mode

Transfer Time : 0 sec

Power Factor >0.99

Product strength



Built-in battery rescue(pre-charging) function

The converter can be fully programmed by RS-232 (can ODM to LINBUS)

Natural convection cooling

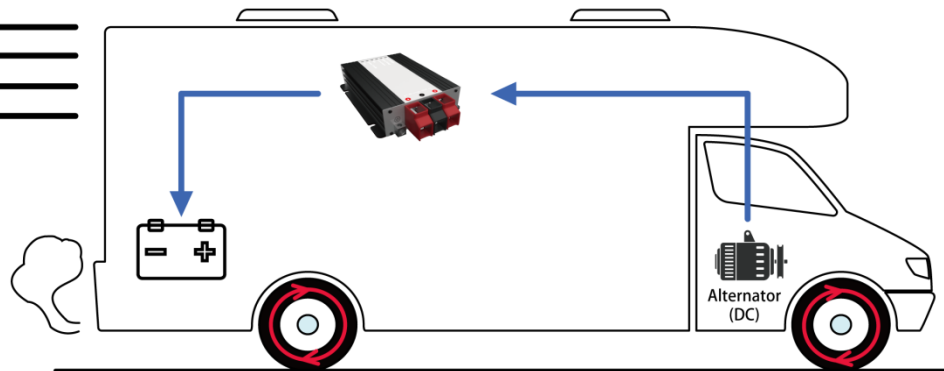
Up to 2 modules can be connected in parallel

Compatible with Lead Acid, LiFePO4, Gel and AGM batteries

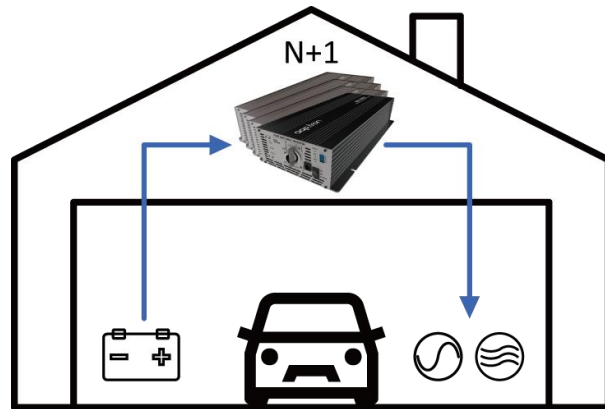
High efficiency and high reliability

Withstand 2G vibration test

Built-in Buck Boost Converter (Support 24V to 12V & 12V to 24V)



Product strength (2023)



Up to 15 modules can be connected in parallel (54KW)

Multiple industrial applications that create 1Φ3W / 3Φ4W power systems

Pure sine wave output (THD < 2.5%)

Loading and temperature controlled cooling fan

Wide range input voltage (9~17V / 18~34V / 36~68V)

ECO Mode stand by < 1W

Input reverse polarity protection (AUTO - RECOVERY)

The background features a series of parallel yellow diagonal stripes that create a sense of movement and energy. The stripes are of varying lengths and are set against a white background.

aap.tron

THANKS!

POWTRON Technologies Co., Ltd

3F., No.18, Ln. 405, Jianguo Rd., Yingge Dist., New Taipei City 239, Taiwan