

Deye DC48V AC

100% off-grid DC 48V battery-powered air conditioner for remote locations.

Models Covered: DC48V AC

Manufacturer: Ningbo Deye Technology Co., Ltd. (Stock Code: 605117.SH)

Application: The Deye DC48V Solar Air Conditioner is a 100% solar-powered system designed for complete off-grid operation. Running directly on 48V DC from solar batteries, it eliminates the need for grid power or AC inverters. Available in 9K, 12K, 18K, and 24K BTU capacities with built-in battery protection.

Technical Specifications

Parameter	DC48V AC
General Data	
Cooling Capacity	9K-24K BTU
EER	3.50-3.90
Coverage Area	8 m – 12 m
Refrigerant	R410A
Available Models / Configurations	9K, 12K, 18K, 24K BTU
Electrical / AC Output Data	
AC Power Supply	DC 48V (46-58V)
Battery Data	
Battery Voltage	DC 48V
Mechanical Data	
Compressor	Brushless DC Inverter
Operating Conditions	
Climate Type	Tropical (T1/T3)
Operating Temperature	-10 to 58 °C

Note: Specifications are based on the official Deye DC48V AC datasheet. Values may be subject to change; always verify against the latest manufacturer documentation before system design and procurement.

Configurations & shipping weights

Configuration	Weight	Dimensions (W × D × H)
DGWA1-DC48V-09K — 9,000 BTU	44.5 kg	910 × 405 × 622 mm
DGWA1-DC48V-12K — 12,000 BTU	48.5 kg	910 × 405 × 622 mm
DGWA1-DC48V-18K — 18,000 BTU	58.5 kg	910 × 405 × 622 mm
DGWA1-DC48V-24K — 24,000 BTU	74.5 kg	1006 × 418 × 755 mm

This listing covers several shippable configurations. Each row is the manufacturer's stated figure for that build; the page weight above is the smallest one, which is what a single unit ships at.

Availability & grid compliance in UAE

Market	UAE
Grid authority / regulator	DEWA, ADDC, SEWA
Quotation currency	AED
Support hours timezone	Asia/Dubai
Delivery & installation coverage	Dubai, Abu Dhabi, Sharjah, Ajman, Ras Al Khaimah

Figures on this page are the manufacturer's own, measured at the test conditions the datasheet states — they do not change by country. What changes is the approval that has to be met before the unit is energised: in UAE that is DEWA, ADDC, SEWA. Confirm the grid code, import requirements and any local certification with them, or with us, before you order.

Key Features & Technical Highlights

- **100% Off-Grid:** Runs entirely on battery power
- **DC 48V Direct:** No AC conversion losses
- **Battery Protection:** Low voltage shutdown protection
- **Extreme Temps:** -10°C to 58°C operation
- **Smart Monitoring:** Remote control and diagnostics
- **Heating & Cooling:** Year-round comfort

Frequently Asked Questions

► Can the DEYE DC48V AC run on solar power?

► What batteries work with the DC48V AC?

► Can it run completely off-grid?

► What's the battery protection feature?

Official Source & Documentation

This technical datasheet is derived from official manufacturer documentation provided by **Ningbo Deye Technology Co., Ltd.** For the latest specifications, firmware updates, and official documentation, visit the manufacturer's website.

- **Manufacturer Website:** www.deyeinverter.com
- **Technical Support:** sales@deyeinverters.net | +971 4 255 0887
- **Sales Inquiries:** sales@deyeinverters.net | +971 4 255 0887

Disclaimer: All specifications and technical data presented on this page are based on the official Deye DC48V AC datasheet published by Ningbo Deye Technology Co., Ltd. Specifications are subject to change without notice. Always verify against the latest manufacturer documentation at deyeinverter.com before system design, procurement, or installation. Compliance with local regulations, grid codes (DEWA, ADDC, SEWA) and utility requirements in UAE is the responsibility of the system designer/installer.

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