

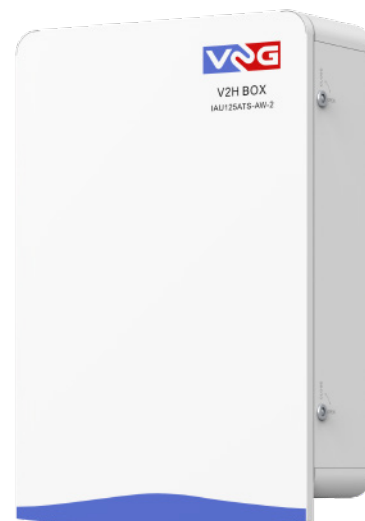
Overview

The optional V2X Off-Grid Box is only needed when the ICE-44 V2X charger is used in grid-forming mode, where it operates independently from the main utility grid. In this isolated mode, the Off-Grid Box helps manage power flow to match the connected load.

In grid-following mode, the charger functions normally, whether it's connected to the utility grid or part of a microgrid. In this mode, the system is not considered "off-grid." Instead, the charger acts as both a power-consuming device and a responsive source, following commands from the local utility, microgrid controls, or InControl™ CMMS.

Benefits and Use Cases

- Enables operation in grid-forming mode, allowing the system to charge independently from the utility grid
- Enables charging infrastructure in areas with limited or no grid access by supporting standalone operation
- Ideal for remote sites or backup power scenarios



Technical Specifications

Main Input, Backup Output, Charger Output	Value
Phases / Lines	3 phases + neutral + PE
Voltage	480 Vac (+/-10%)
Frequency	60Hz
Current	Max 250A
Backup Output & Charger Output	Value
Phases / Lines	3 phases + neutral + PE
Voltage	480 Vac (+/-10%)
Frequency	60Hz
Current	Max 125A
Cabinet	Value
Dimensions (D x W x H)	8.7 in x 20.8 in x 33.5 in / 220 mm x 508 mm x 850 mm
Weight	126.75 lbs / 57.5 kg
Protection Degree	IP55, Cabinet IK10
Environmental Conditions	Value
Operating Temperature	-13°F–122°F / -25°C–50°C
Transportation / Storage Temperature	-40°F–158°F / -40°C–70°C
Humidity	5% RH – 95% RH
Place of Installation	Indoor / Outdoor
Altitude	6561.28 ft (2000 m)
Atmospheric Pressure	80Kpa – 110Kpa
Overvoltage Category	II
Protection Class	Class I

Ordering Information*

Product Code	Product Configuration
IAU125ATS-AW-2	Off-Grid Box for ICE-44 V2X

*Please note, the variants listed are representative and may not be a comprehensive list of available options. Consult with your InCharge Energy sales representative.