Flux 24V Safety & User Information

Auxiliary Charging & Energy Transfer for Small Craft

Thank you for testing Flux. Flux is an **early-stage auxiliary charging module** designed to transfer power from a compatible DC source to a compatible battery or charging system.

Flux is intended for **kayak, canoe, small-boat, campsite, and field power** setups where **portability**, **controlled power transfer**, and **extended runtime** are required.

📱 Scan to access the latest instructions, setup videos, product updates, and support resources

Flux 24V Unit Information

Unit Description

Flux 24V is an **auxiliary DC charging and energy-transfer** unit designed to transfer power from a compatible **12V DC source** to a compatible **24V battery system**, **charge port**, or supported **24V load**.

This unit is intended to provide **controlled power transfer** or **charging support** for electric kayak, canoe, and small-boat setups where **extended runtime**, **portability**, and **removable power support** are required.

This unit handles **high-current DC input** and **higher-voltage DC output**. Before making any connection, verify **voltage**, **polarity**, **connector orientation**, **cable rating**, **fuse/breaker rating**, and **battery compatibility**.

Configuration Notice

Flux 24V units may be built with different internal Victron configurations depending on the specific unit.

Possible configurations include:

- Smart isolated DC-DC charger
- Smart non-isolated DC-DC charger
- Non-Smart isolated DC-DC converter
- Non-Smart / not-connected configuration

Smart units can be viewed and configured through the **VictronConnect** app. **Non-Smart** or **not-connected** units will not appear in VictronConnect.

Always follow the label and unit-specific record for the actual unit being used.

Recommended Operating Limits

Item	Recommended Limit / Guideline
Unit type	Flux 24V auxiliary DC charging / energy-transfer module
Input source	Compatible 12V DC battery or power source only
Recommended input system	12V nominal DC source
Output system	24V nominal battery system, compatible charge port, or supported 24V load
Output voltage range, Smart 12/24 unit	Typically adjustable within the Victron 18–30V range
Nominal Victron output voltage	24.2V DC for common 12/24 Victron units
Output current, Smart 12/24 non-isolated	15A continuous at nominal output voltage and 40°C
Output current, 12/24 isolated converter	Depends on installed model; common ratings include 10A or 15A
Maximum output power	Depends on installed model and temperature
Temperature behavior	Output current may reduce at high ambient temperature
Operating temperature	-20°C to +55°C for common Victron Orion-Tr units
High-temperature derating	Derating above 40°C for common Victron Orion-Tr units
Humidity limit	Max 95% non-condensing
Ventilation	Keep uncovered and allow airflow during operation

Water exposure	Splash-prone outdoor use only; do not submerge
Storage	Disconnect cables, cap connectors, and store dry

Common 24V Victron Reference Values

Use the actual unit label and Victron model number as the source of truth. This table is provided to help identify common Flux 24V configurations.

Config	Victron Model	Smart	Isolated	Input (V)	Output (V)	Max Output
Smart isolated	Orion-Tr Smart 12/24-15A Isolated DC-DC Charger	✓	✓	8–17V	18–30V	15A
Smart non-isolated	Orion-Tr Smart 12/24-15A Non-Isolated DC-DC Charger	✓	—	8–17V	18–30V	15A
Non-Smart isolated (240W)	Orion-Tr 12/24-10A Isolated DC-DC Converter	—	✓	8–17V	18–30V	10A
Non-Smart isolated (360W)	Orion-Tr 12/24-15A Isolated DC-DC Converter	—	✓	8–17V	18–30V	15A
Non-Smart / other	See label	—	See label	See label	See label	See label

Important: Non-Smart Orion-Tr DC-DC converters may be adjustable power supplies rather than Smart battery chargers. **Do not change settings** or use with a battery system unless the specific unit has been configured and approved for that use.

Unit-Specific Record

Field	Unit-Specific Value
Quantacraft model	Flux 24V
Quantacraft unit serial number	_____
Internal Victron model	_____
Internal Victron type	Smart / Non-Smart / Isolated / Non-Isolated
Victron part number	_____
Victron serial number	_____
Victron PIN, if Smart-enabled	_____
Victron PUK, if available	_____
Input rating marked on unit	12V DC input / ____ A max
Output rating marked on unit	24V DC output / ____ A continuous
Installed input fuse / breaker rating	____ A
Installed output fuse / breaker rating	____ A
Supported battery system	Compatible 24V nominal battery / charge port
Supported charge connector	_____
Smart / VictronConnect enabled	Yes / No
Assembly date	_____
Final inspection date	_____
Inspected by	_____
Notes / configuration	_____

Important Unit Notes

Warning: Always verify **polarity** before connecting the input source or output battery system. **Reverse polarity** may damage the unit, battery, or connected equipment.

The unit may become warm during operation. Keep it **uncovered**, **well ventilated**, and away from heat-sensitive materials. Some warmth may be normal; **excessive heat is not**.

Do not use this unit in **standing water** or fully wet conditions. Keep connectors **clean**, **dry**, and **capped** when not in use.

Smart-enabled Victron units can be monitored and configured through VictronConnect. Non-Smart or not-connected units will not appear in VictronConnect.

Do not change Victron charger or converter settings unless instructed by Quantacraft Marine. Incorrect **output voltage**, **battery preset**, **absorption voltage**, **float voltage**, **input lockout**, or **operating mode** may damage batteries or connected equipment.

Basic Connection Guidelines

Before connecting Flux 24V, confirm the following:

1. Confirm the input and output labels on the unit.
2. Confirm the receiving battery system, charge port, or 24V load is compatible with this unit.
3. Confirm polarity before connecting.
4. Confirm the cable and connector ratings.
5. Confirm the fuse or breaker rating.
6. Make sure connectors are clean, dry, and fully seated.
7. Make sure the unit is stable, ventilated, and not covered by gear.

Do not connect Flux 24V to an **unknown battery**, an **unsupported charge port**, a **damaged battery**, or any battery reporting **fault warnings**. **Do not force connectors.** If a connector does not fit easily, stop and verify the setup.

Basic Operating Sequence

1. Place Flux 24V on a stable, dry, ventilated surface.
2. Make sure all switches, breakers, and connected devices are off.
3. Confirm input and output labels.

4. Connect the output side to the compatible 24V battery, charge port, or supported 24V load.
5. Connect the input side to the compatible 12V DC power source.
6. Verify that all cables are secure and strain-relieved.
7. Turn on or reset the unit as directed.
8. Monitor the unit, battery, cables, and connectors during use.
9. When finished, turn off or disconnect the input source first, then disconnect the output side.
10. Install connector caps after use.

24V DC Safety

This unit operates above typical **12V accessory voltage**. Misuse may **damage equipment**, generate **excessive heat**, damage **batteries**, or create a **safety hazard**.

Do not touch exposed contacts. Do not use damaged cables. Do not connect or disconnect under load unless specifically instructed. Do not bypass fuses, breakers, connectors, or safety features. Do not open, modify, or service the unit.

If you notice excessive heat, smoke, a burning smell, arcing, melting, unexpected battery behavior, or repeated breaker trips, stop use immediately and disconnect the system if it is safe to do so.

Heat and Runtime

Stop using the unit immediately if any of the following occur:

- The case becomes uncomfortably hot to touch
- Connectors or cables become hot
- A fuse or breaker trips repeatedly
- The receiving battery reports a fault
- The unit shuts down unexpectedly
- You smell burning plastic or see smoke
- The unit is covered, enclosed, or unable to shed heat

For extended operation, inspect the unit periodically. In hot weather or direct sun, reduce runtime, improve airflow, or stop use if heat increases.

VictronConnect Setup for Smart Units

If this Flux 24V unit is Smart-enabled:

1. Download the VictronConnect app from the Apple App Store or Google Play Store.
2. Power the Flux 24V unit according to the setup instructions.

3. Open VictronConnect on your phone or tablet.
4. Locate the Orion Smart device in the nearby device list.
5. Tap the device.
6. Enter the PIN shown on the side label or unit record.
7. Once connected, review live status and confirm the unit is operating normally.

In VictronConnect, you may be able to view input voltage, output voltage, charger state, off reason, warnings, errors, and configuration information.

Do not change charger settings unless instructed by Quantacraft Marine.

If the unit does not appear in VictronConnect, confirm the unit is powered, Bluetooth is enabled on your phone, and you are within range. Only one phone or tablet can connect at a time. If needed, power-cycle the unit and try again.

If this unit is not Smart-enabled or not connected internally, it will not appear in VictronConnect. Use the unit label and printed configuration record instead.

Quick Do / Do Not List

✅ Do

- **Verify** voltage and polarity before connecting.
- Use only **compatible** batteries, charge ports, loads, and cables.
- Keep connectors **clean**, **dry**, and **capped** when not in use.
- **Monitor** the unit during operation.
- Stop use if anything gets **excessively hot**.
- Use VictronConnect to check status if the unit is Smart-enabled.

Ask before changing settings or connecting to a new battery system.

⛔ Do Not

- Do not **submerge** the unit.
- Do not **force connectors**.
- Do not **bypass** fuses or breakers.
- Do not use **damaged** cables or batteries.
- Do not connect to **unknown** batteries or **unsupported** charge ports.
- Do not change Victron settings unless instructed.
- Do not leave active charging **unattended**.

Do not open, modify, or rewire the unit.

Simple Operating Reminder

Verify. Connect. Monitor. Disconnect. Inspect.

If anything appears incorrect, stop and confirm the setup before continuing.

Support

For setup assistance, current instructions, product updates, and support information, scan the QR code or visit:

https://www.quantacraftmarine.com/support/flux

Quantacraft Marine
Email: tyler@quantacraftmarine.com