Quick-Start Guide — RevGo 100W Ku-Band BUC

1. What You Need Before Power-Up

- **L-Band modem** (950–1450 MHz IF)
- **N-type coax** for IF input
- **WR75 waveguide** for RF output
- **M&C cable** (RS-232/485 or Ethernet depending on your model)
- **Ground strap**

2. Basic Connections

A. RF Output (Waveguide)

- Connect **WR75-G** flange to your feed or OMT.
- Ensure **gasket is installed** and screws are evenly torqued.
- Never power the BUC without a proper RF load.

B. IF Input (N-Type Female)

- Connect modem → BUC using **50-ohm N-type coax**.

- IF range: **950–1450 MHz**
- Max input: **+5 dBm** (do NOT exceed).

C. Power Connector

- Uses **7-pin AC or DC connector** depending on model.
- Most 100W Ku units use **48 VDC**.

D. M&C Connector

- 12-pin circular connector.
- Supports **RS-232**, **RS-485**, and **Ethernet** (model-dependent).

3. Power-Up Sequence

1. Connect **ground** first.
2. Connect **IF cable**.
3. Connect **M&C cable** (optional).
4. Apply **48 VDC power**.
5. Wait for **BUC to boot** (usually 20–30 seconds).
6. Verify LED status:
    - **Green** = normal
    - **Amber** = warning
    - **Red** = fault

4. Basic Operation

- Set modem to **L-Band output** in the correct range.
- Ensure **10 MHz reference** is present if your BUC requires external reference.
- Slowly increase modem output power while monitoring:
    - **BUC temperature**
    - **Output power**
    - **Alarms**

Connector Pinouts (Simplified)

A. Power Connector (7-Pin) — 48 VDC Models

Pin	Function
A	+48 VDC
B	+48 VDC (parallel)
C	Return (Ground)
D	Return (Ground)
E	Chassis Ground
F	Not used
G	Not used

Notes:

- Pins A/B are internally tied together.
- Pins C/D are internally tied together.
- Always use **proper gauge cable** for 100W load.

B. M&C Connector (12-Pin)

Pin	Function
1	RS-485 A(+)
2	RS-485 B(–)
3	RS-232 TX
4	RS-232 RX
5	RS-232 GND
6	Ethernet TX+ (if equipped)
7	Ethernet TX–
8	Ethernet RX+
9	Ethernet RX–

Pin Function

10 Alarm Relay (NO)

11 Alarm Relay (COM)

12 Chassis Ground

Important: Ethernet pins are only active on models with the **IP-enabled M&C board**.