



# Tigo EI (US) Inverter Power Derating Application Notes

## Introduction

Power derating allows installers to reduce an inverter's maximum output power to meet specific project or regulatory requirements. This is especially useful in areas where utility programs impose a 10-kW cap on residential inverters, or in repowering scenarios where a **like-for-like replacement** helps retain original permitting without going through new approvals. It also helps avoid costly main panel or service upgrades by aligning inverter output with the site's interconnection limits. For Tigo's inverters, derating options depend on the original model:

- For the **11.4 kW** inverter, available settings include **10.0 kW**, **9.6 kW**, and **7.6 kW**.
- For the **7.6 kW** inverter, options include **6.0**, **5.8**, **5.0**, **3.8**, **3.0**, **2.5**, and **2.0 kW**.
- For the **3.8 kW** inverter, options include **3.0**, **2.5** and **2.0 kW**.

These selections ensure flexibility for regional compliance, system design constraints, and repowering needs.



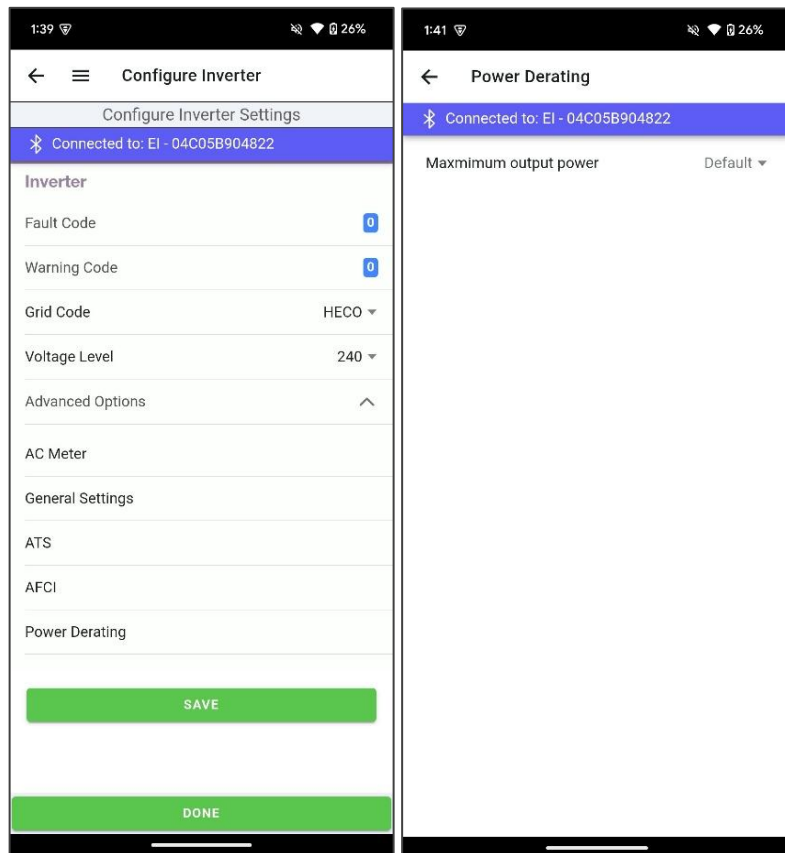
## Step-by-Step Instructions

### Step 1: Navigate to Derating Setting

- From the EI setup screen:  
**Configure Inverter > Advanced Options > Power Derating**

### Step 2: Open Derating Options

- Tap **Maximum Output Power** to edit



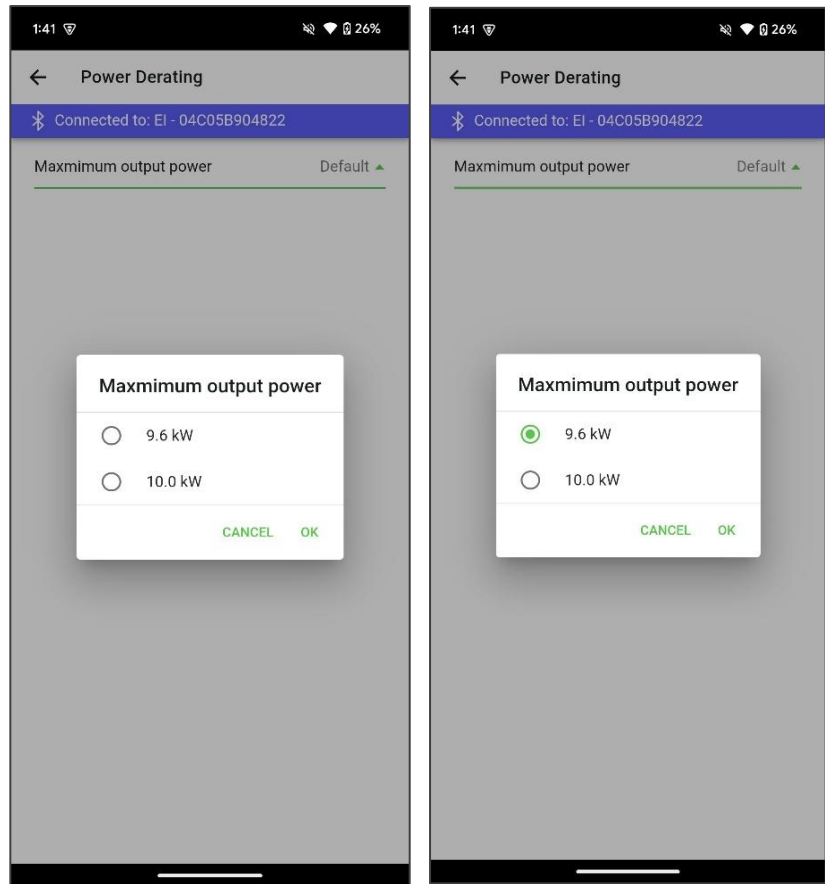


### Step 3: Choose Output Limit

- For the **11.4 kW inverter**, select from:
  - 10.0 kW
  - 9.6 kW
  - 7.6 kW

### Step 4: Select Desired Limit

- Example shown: **9.6 kW selected**





## Step 5: Confirm Change

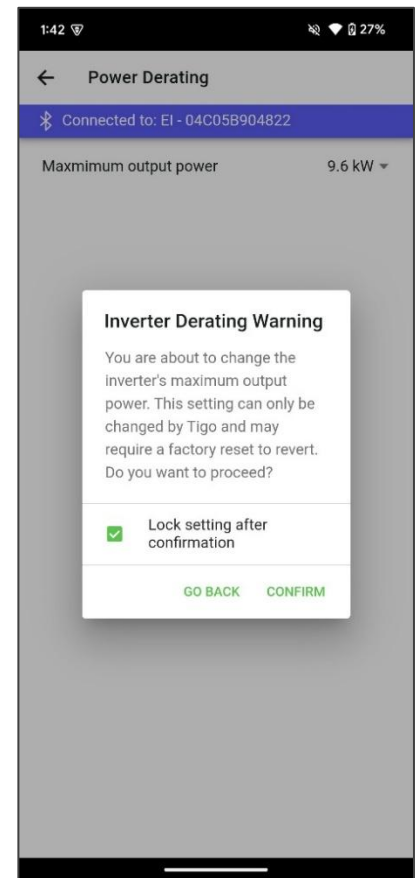
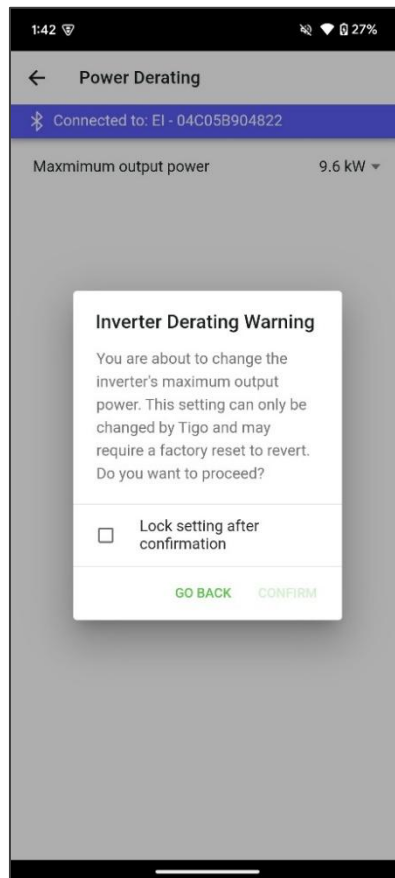
A warning will appear noting:

“Change is permanent and logged.”

Optional: Check **“Lock setting after confirmation”**

## Step 6: Lock and Confirm

Once locked, the setting requires a **factory reset** to change.





## Step 7: Confirmation Message

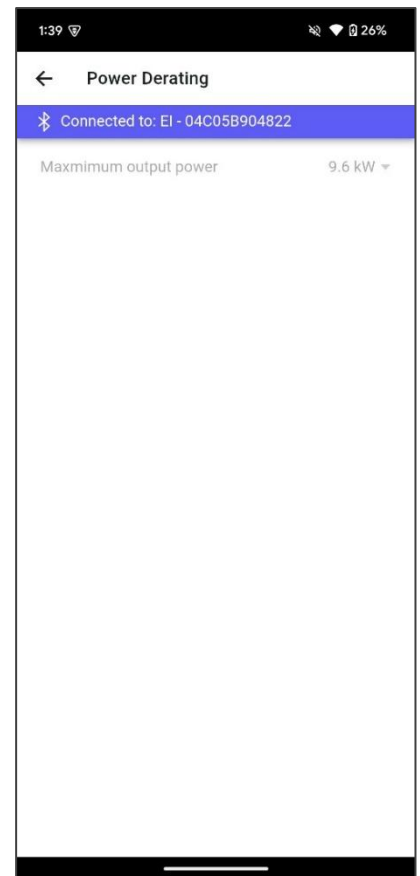
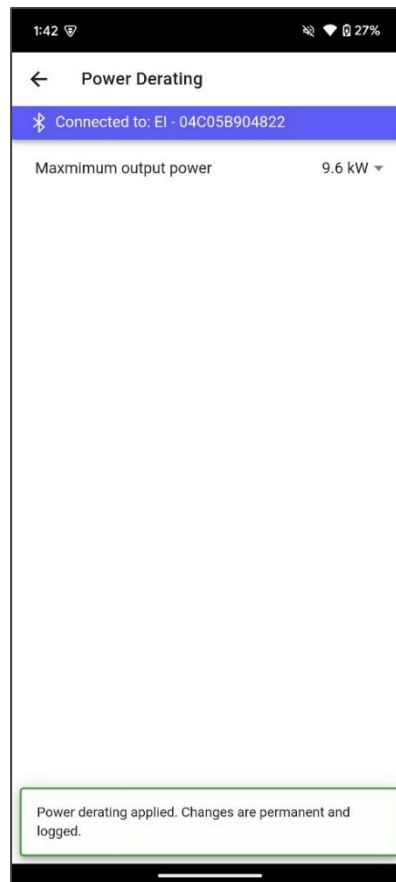
A success

message will confirm:

“Power derating applied. Changes are permanent and logged.”

## Step 8: Verify Final Output

The final screen will show the **selected output is locked**.





Once the derating is applied, please download the documents as shown in the images. The package includes a Letter of Authorization and a digital sticker, which are required to support the AHJ inspection.

These steps complete the power derating setup process. Please note that once the derating value is confirmed and locked, **the change is permanent** and can only be reversed through a **factory reset of the inverter which can be done by only Tigo team**. Be sure to double-check the selected value before confirming, especially in jurisdictions where system sizing and permitting are tightly regulated.

### Applicability

Tigo EI Inverter (US) all models.

