

Get your energy intelligence hub running in under 30 minutes.

## 1 Verify inverter compatibility

- Supported inverters: Deye, Sunsynk and compatible RS485 models.
- Locate the RS485 / BMS / COM port on your inverter.
- **Not sure? Email us before you install — we'll confirm compatibility.**

## 2 Mount the SI Gateway

- Mount near the inverter — within RS485 cable reach.
- Wall-mount or place on a shelf. Ensure adequate ventilation.

## 3 Connect the RS485 cable

- Connect A+ to A+, B- to B- between SI Gateway and the inverter's RS485 port.
  - Refer to your inverter manual for the exact pin labelling.
- Note:** Power off the inverter before connecting RS485.

## 4 Power up and connect to Wi-Fi

- Apply power to SI Gateway. LED blinks amber — Wi-Fi setup mode.
- On your iPhone: Settings → Wi-Fi → connect to SI-Gateway-XXXX.
- Enter your home Wi-Fi credentials. LED turns solid green when connected.

## 5 Download the app and add your device

- Search Solaire Intelligence on the App Store and install.
- Sign in and tap Add Device → SI Gateway.
- The app shows live solar, battery, grid and load data.

## 6 Verify live data

- Check Solar is showing a realistic wattage (if the sun is out).
- Check Battery SOC matches your inverter display.
- The ECM Score (0–20) will start updating automatically.

## 7 Set your electricity tariff

- Go to SI Gateway → Settings → Tariff.
- Enter your tariff in R/kWh (check your latest Eskom or municipality bill).
- SI Gateway starts tracking grid cost and solar savings immediately.

## 8 Optional: Home Assistant

- If you run HA with an MQTT broker, all entities auto-discover — no YAML needed.
- Every sensor, switch and reading appears automatically in HA.

## 9 Optional: Connect SI Pool or SI Water

- Once SI Gateway is on the network, connected SI devices find it automatically.
- Each device polls the ECM score via local HTTP — no configuration required.
- The ecosystem self-assembles on your local network.

■ For inverter-specific RS485 wiring diagrams and advanced config, visit [solaire-intelligence.co.za/docs](http://solaire-intelligence.co.za/docs) or email [info@si-sa.co.za](mailto:info@si-sa.co.za).



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