



emaldo

AI POWERED HOME ENERGY SYSTEM

This is why the Emaldo Power Core is simply better



Automated savings



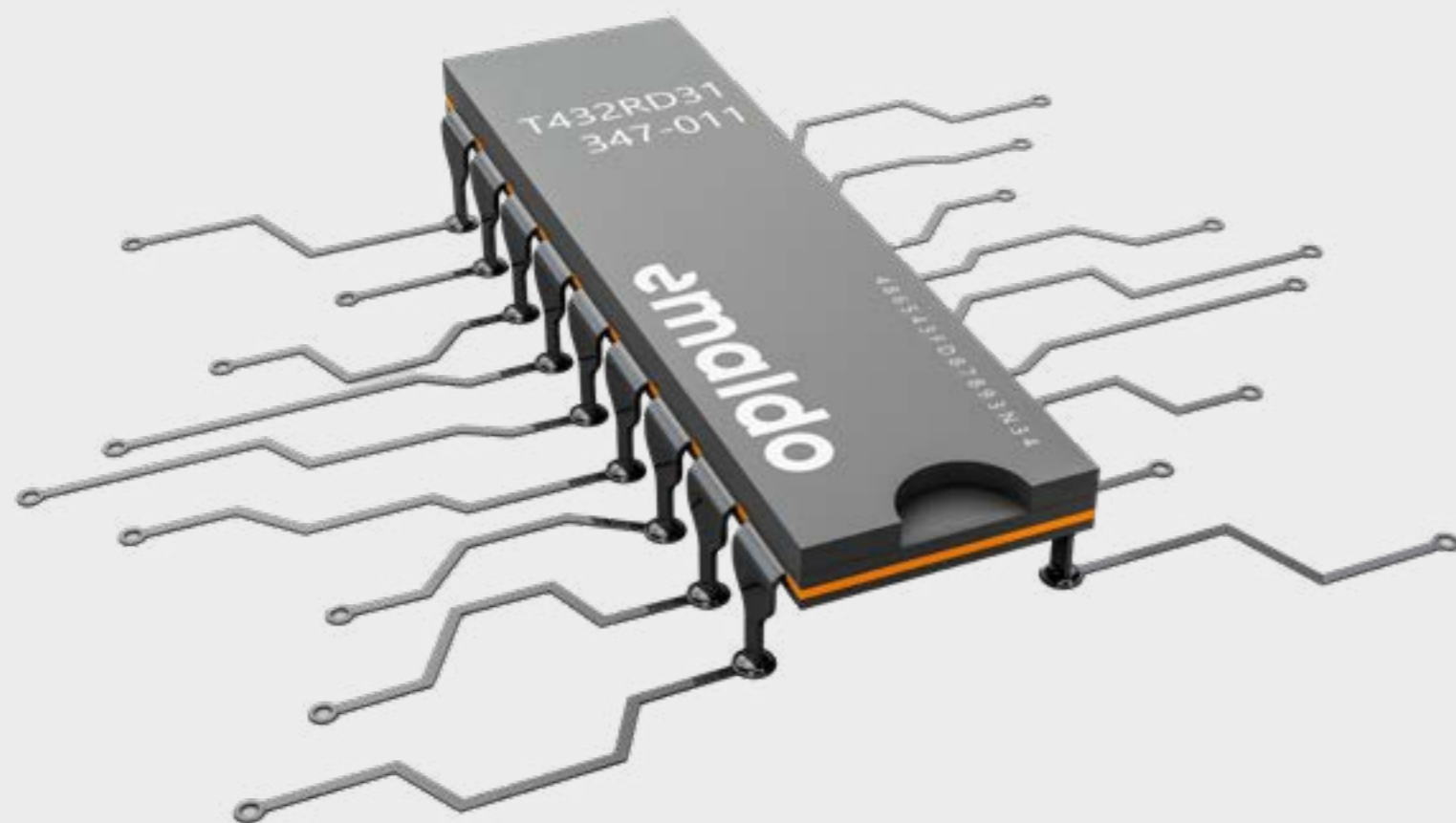
True all-in-one



24/7 power backup



Built-in EV charger



 Energenie® AI engine inside

The mastermind behind it all

The Emaldo Power Core is more than just power storage. Our proprietary Energenie® AI engine is built into the very core of our system.

With a combination of its knowledge of your local future electricity pricing down to the hour, local weather and sun hour forecasting, as well as its unique ability to learn your household's energy usage pattern, it will automatically and constantly save you money and reduce your carbon footprint.



Weather and sun hour forecast



Knows the future grid prices in advance



Learns your household's usage pattern



Safe and green batteries


Safety and environment, hand in hand

Our battery power boxes are built on the safest battery technology available, making the Emaldo Power Core safe to be around for your whole family.

The very same batteries are even 100% recyclable, making it possible to reactivate the battery cells even after years of use. Reusing instead of discarding depleted batteries, even though done properly, drastically helps reducing the carbon footprint and impact on our common environment.

 100% recyclable batteries

 Temperature control fluid


 Water based battery cell manufacturing reducing


Child and pet safe

Safe for the whole family

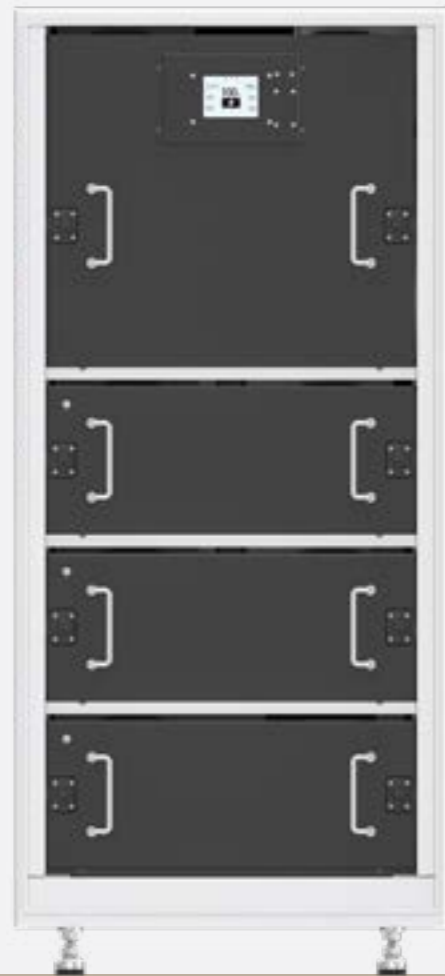
Safety comes before everything else and it is baked into the very core design of the Emaldo Power Core.

The physical design is done to avoid any exposed wires and hot vents, making the Emaldo Power Core AIO safe to be around for both children and pets alike and our battery power boxes is built on the safest battery technology available, creating a safe environment for you whole family.

 No hot vents

 No exposed cables





 Expandable

 Built-in electric vehicle charger

 True all-in-one solution

Home Power Made Easy

Everything built in to one expandable device

The Emaldo Power Core is a true all-in-one home power management solution, bringing our custom high-performance inverter, our expandable battery power boxes, Bluetooth® and Wi-Fi connectivity, as well as a dedicated type 2 electric vehicle charger, into one stylish cabinet.

The all-in-one design of the Emaldo Power Core eliminates the need for installation of separate devices, reduces space requirements drastically and allows for the shortest system setup time in the industry.

With our 3.1 kWh battery power boxes, you can expand the battery capacity of a single Emaldo Power Core to accommodate almost all needs and if you want to go really big, the system allows for easy parallel connections for up to an extreme 86 kWh system.

Fast. Cheap. Green.


Charge your electric vehicle your way

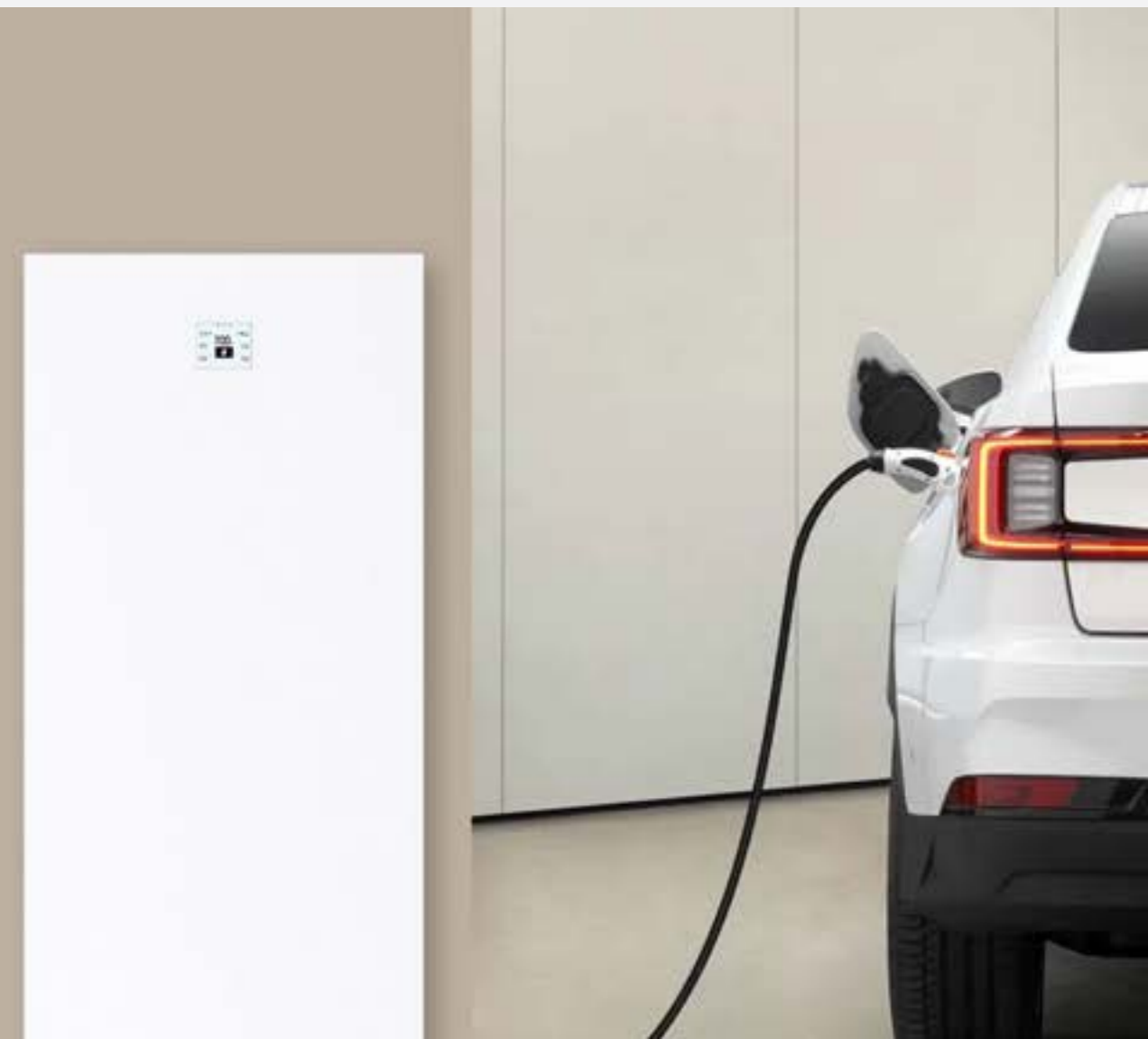
The Emaldo Power Core is the only system in the market with a dedicated type 2 electric vehicle charger built right into it.

Not only does the EV charger saves you from additional costs of buying this separately, but it will allow you to charge your car exactly the way you prefer.

Choose to charge only on solar power or ask the system to intelligently charge with the cheapest possible grid prices, all still making sure your electric car is ready to go the next morning.

 Go all green

 Have the car ready when you need it





Not just a glorified reporting tool

With our app you finally get a saying in how your system works

With our app for Android and iPhone, you can monitor your solar energy production in real time, check your usage and tweak the system to your personal preferences.

Set your preferred EV charging mode, adjust the SmartPower settings to suit your lifestyle and keep an eye on your savings, both cash and on your carbon footprint.

Light weight, flush with the wall and minimal wiring

Real easy and fast installation

Home power stations can be a bit tedious to install, due to their size, weight and the many connections required, but the Emaldo Power Core changes that.

The traditional heavy weight has been drastically reduced, making it much easier and safer to install than other systems and with its uniquely slim profile the Emaldo Power Core snugs right up against the wall, with absolutely no space requirements for cabling, brackets and ventilation.

To make it even easier to install, the Emaldo Power Core features our SlideONSM connectors, allowing both inverter and battery power boxes to be installed in the cabinet without any wiring at all. Simply slide it in and it is ready to go.



SlideONSM connectors eliminates wiring



Light weight only 43 kg / 95 lbs



Small and very slim design

SM




24/7 True Power Backup


When everyone else drop out, you're always on

The Emaldo Power Core backup protection will keep your home running even during blackouts and brownouts.

Connected directly to your home grid, the Emaldo Power Core will instantaneously take over if the grid goes down, ensuring your critical appliances and devices will continue to work, as if nothing had happened.

The Emaldo Power Core delivers a constant 10.8 kW supply, which will keep a lot going during blackouts and the impressive peak of no less than 21.6 kW will be enough to start even the most demanding of appliances.

 24/7 True Power Backup


 Able to power even the most demanding appliances

Solar Panels

Get full advantage of your solar power

The Emaldo Power Core batteries ensures that you get maximum advantage of the solar power you generate, storing it all until you actually need it. All the while our Energenie® AI engine optimizes output and reduces your carbon footprint.

The Emaldo Power Core integrates seamlessly with your existing or new solar panels and the built-in 3 MPPT inverter allows you to have panels installed on several locations on your property.

 Connects to a wide range of solar panels

 3 MPPT connections



Earn money by balancing the grid.

Stop paying. Get Paid.

By allowing your Emaldo® Power Core to autonomously charge and discharge to and from the grid, you contribute to stabilizing the electricity grid for the benefit of all, while receiving a steady income.

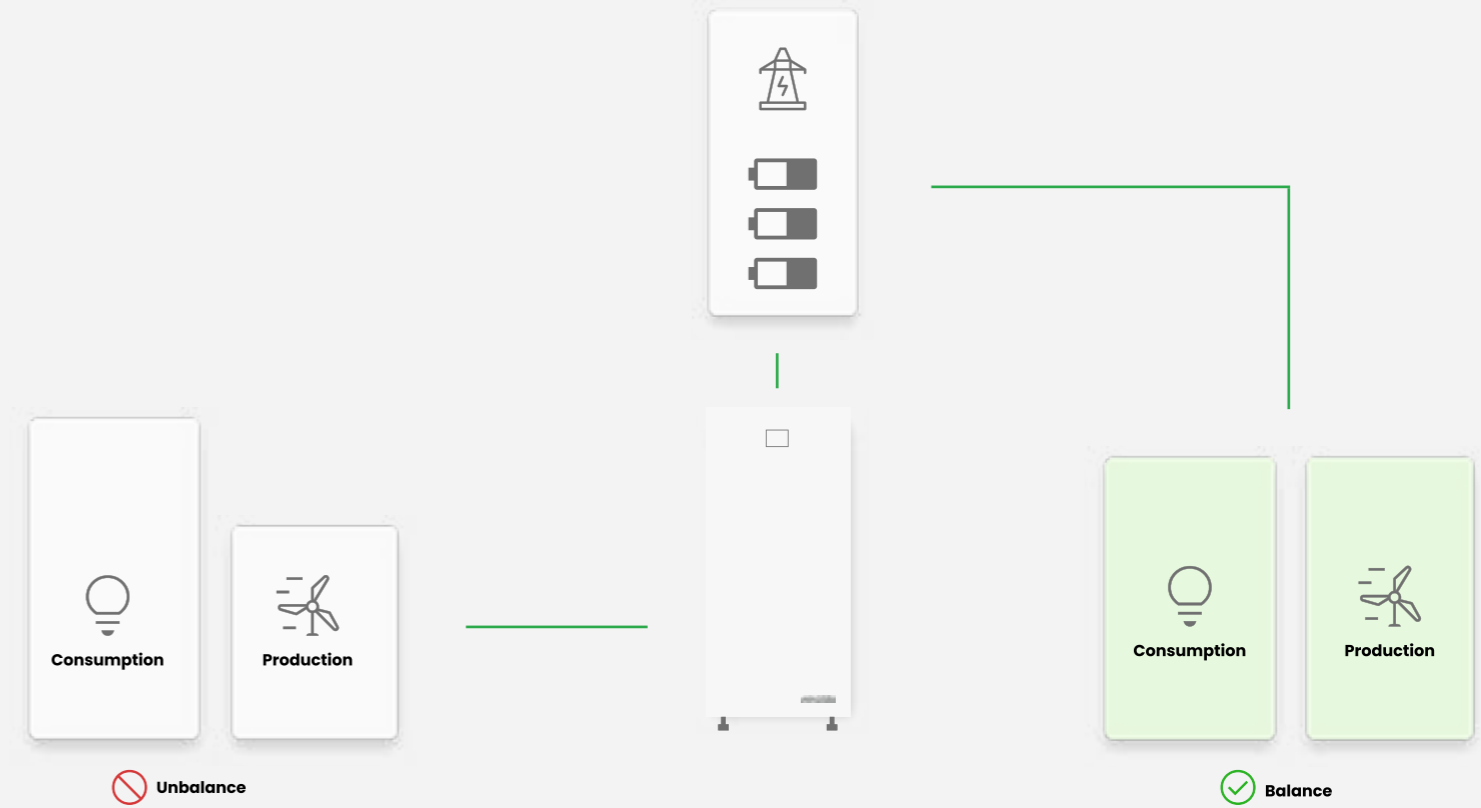
Currently only available in select countries/regions. Please reach out for more information about grid balancing in your area.



Payouts done directly from Emaldo® to your bank account. Every month.



No additional hardware required. Activate the grid reward program from the app.



Monthly earnings

This is how

While it may sound too good to be true, this time, it's a genuine opportunity. Here's the breakdown:

As the owner of an Emaldo® Power Core home energy system, you have the unique privilege of securing a dependable passive income, deposited directly into your bank account.

Simply activating the grid reward program from the app and enjoy getting income each month.

Reach out today to find out if this is accessible in your area.

A generation ahead

This is why the Energenie® AI Engine makes a world of Difference

The Emaldo Power Core batteries ensures that you get maximum advantage of the solar power you generate, storing it all until you actually need it. All the while our Energenie® AI engine optimizes output and reduces your carbon footprint.



Energenie® AI engine inside



Learns your household's usage pattern



Saves you money automatically



Buys from the grid at the lowest possible price



Weather forecasting



Sun hour prediction



Go all green or take a more balanced approach

Not only does the Energenie® engine know when to buy electricity from the grid at the lowest possible price, but it knows your usage needs and adjusts accordingly, making sure your household runs smoothly, even when you are charging your electric vehicle, all while ensuring you are covered in the event of a blackout.

This way you are sure your electrical bill is as low as it gets, while still living your life to the fullest.



The Emaldo Power Core integrates seamlessly with your existing or new solar panels and the built-in 3 MPPT inverter allows you to have panels installed on several locations on your property.

Technical specifications

Packed to the brim with all the good stuff

AC input

Rated Input Power	10800VA
Rated Input Current	15,6A*3
Rated Input Voltage	400Vac
Rated Input Frequency	50/60Hz
Max Input Current	15,8A*3

AC output (on-grid)

Rated output Apparent Power	10800VA
Rated output Current	15,6A*3
Rated output Voltage	400Vac
Rated output Frequency	50/60Hz
Max output Current	15,8A*3
Max power Factor	0.8i...1...0.8c
THCv	<3%

AC output (off-grid)

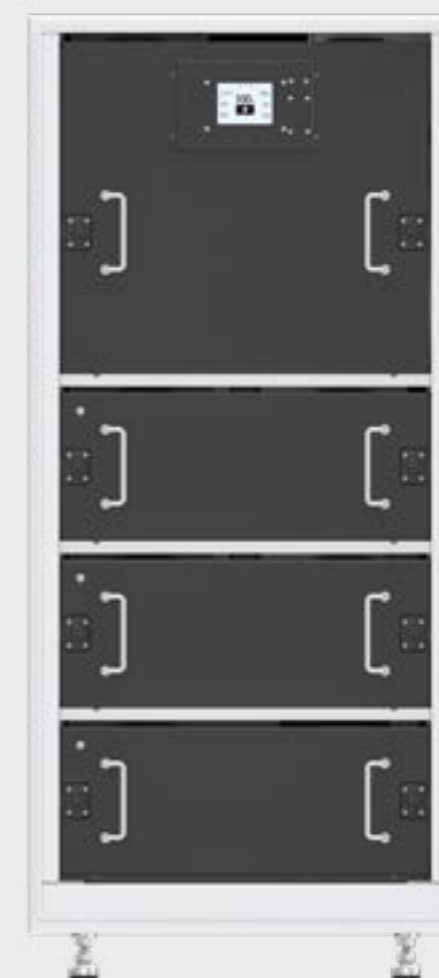
Rated output apparent power	10800VA
Rated output Current	15,6A*3
Max output Current	15,8A*3
Rated output Voltage	400Vac
Rated output frequency	50/60 (± 0.5)Hz

PV input

Max Input Power	10800W
Max Input Open-circuit Voltage	550Vdc
MPPT Voltage Range	90-500Vdc
Start-up Voltage	100Vdc
Max Input Current	13A*3
Max Short-circuit Input Current	18A*3
MPPT Input String Number	3

EV output

Rated Output Power	10800W
Rated Output Current	15,6A*3
Rated Output Voltage	400Vac
Interface Type	IEC Type2 (IEC62169)
Leakage protection	Integrated (external)



Technical specifications

Continued

Battery

Battery type	LFP (LiFePO4)
Battery capacity 1 pcs.	3072 Wh
Rated Battery Voltage	51.2V
Battery Voltage Range	40V~58.8V
Max Charging Current	100A (depend on number of battery module)
Max Discharging Current	180A (depend on number of battery module)

Efficiency

Max efficiency	97.00%
European efficiency	96.00%

Protection

Anti-islanding protection	Integrated
Reverse connection protection of photovoltaic input	Integrated
Insulation impedance detection	Integrated
Residual current detection	Integrated
Output overcurrent protection	Integrated
Output short circuit protection	Integrated
Output overvoltage protection	Integrated

General

Operating temperature (Celcius)	-20~50 °C
Relative humidity	0~95%
Altitude	2000m
Cooling	Forced air
Noise	<50dB
Display	E-INK + LED + APP
Communication	RS485 (Smartmeter)
4G/WiFi/Bluetooth	YES/YES/YES
Topology	Transformerless
Weight (kg)	215 kg (including 3 battery modules)
Dimensions (W*H*D mm)	700*1520*327 mm



Disclaimer

The product specifications provided herein are subject to change without notice, and while we endeavor to maintain accuracy, Emaldo Power Core cannot guarantee completeness, accuracy, or reliability. Performance metrics are based on typical scenarios and actual performance may vary. Compatibility with third-party products is not guaranteed. The limited warranty terms, proper installation by a qualified electrician, and adherence to safety practices are essential. Energy data accuracy is aimed for but not guaranteed. Technical support availability varies. Emaldo Power Core is not liable for any damages from product use. Specifications and features are subject to change. Usage implies agreement to these terms. For legal compliance, consult professionals.



*"Emaldo was founded with a vision to create a positive impact on our planet.
We believe that by offering sustainable energy solutions, we have the
power to shape a greener future for all.*

*Our commitment to reducing carbon footprints drives us every day, pushing us to
innovate and provide environmentally-friendly products and services.
Together, let's embrace the power of clean energy and pave the way for a
more sustainable world."*

- Steffen Bjerregaard / CEO



hello@emaldo.com | emaldo.com