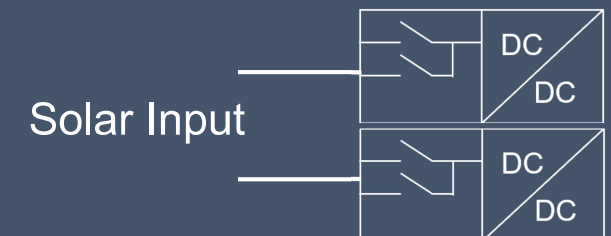


Unique technology of Dual MPPT, efficiency up to **99.9%**

### DC Coupler Design



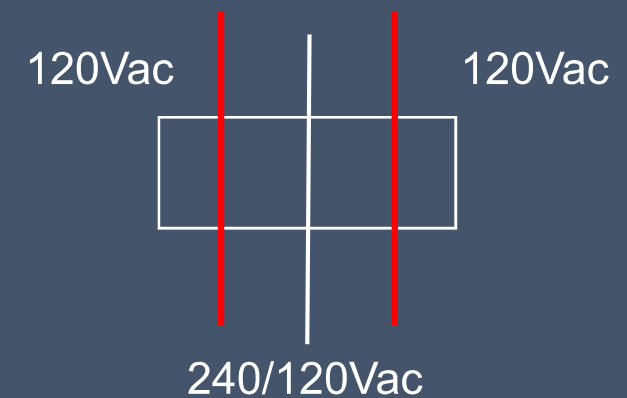
## Transformerless design to build split phase

Higher System Efficiency

**97.3%** charge efficiency

**96.3%** discharge efficiency

**Transformerless**



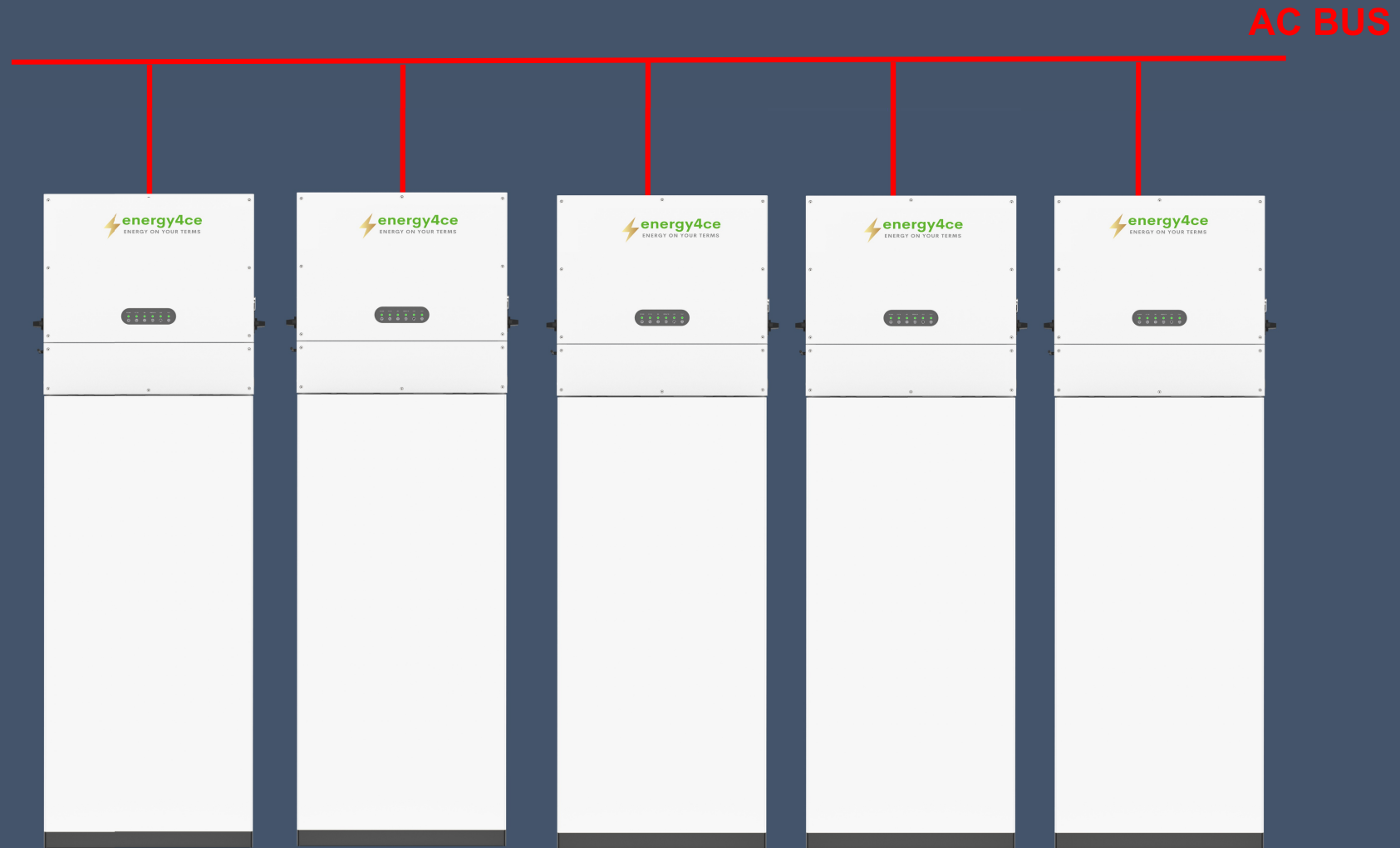
# Battery Module **Plug-In** Design



High Voltage battery system up to 400Vdc for **higher efficiency** energy transfer

# Seamless System Expansion

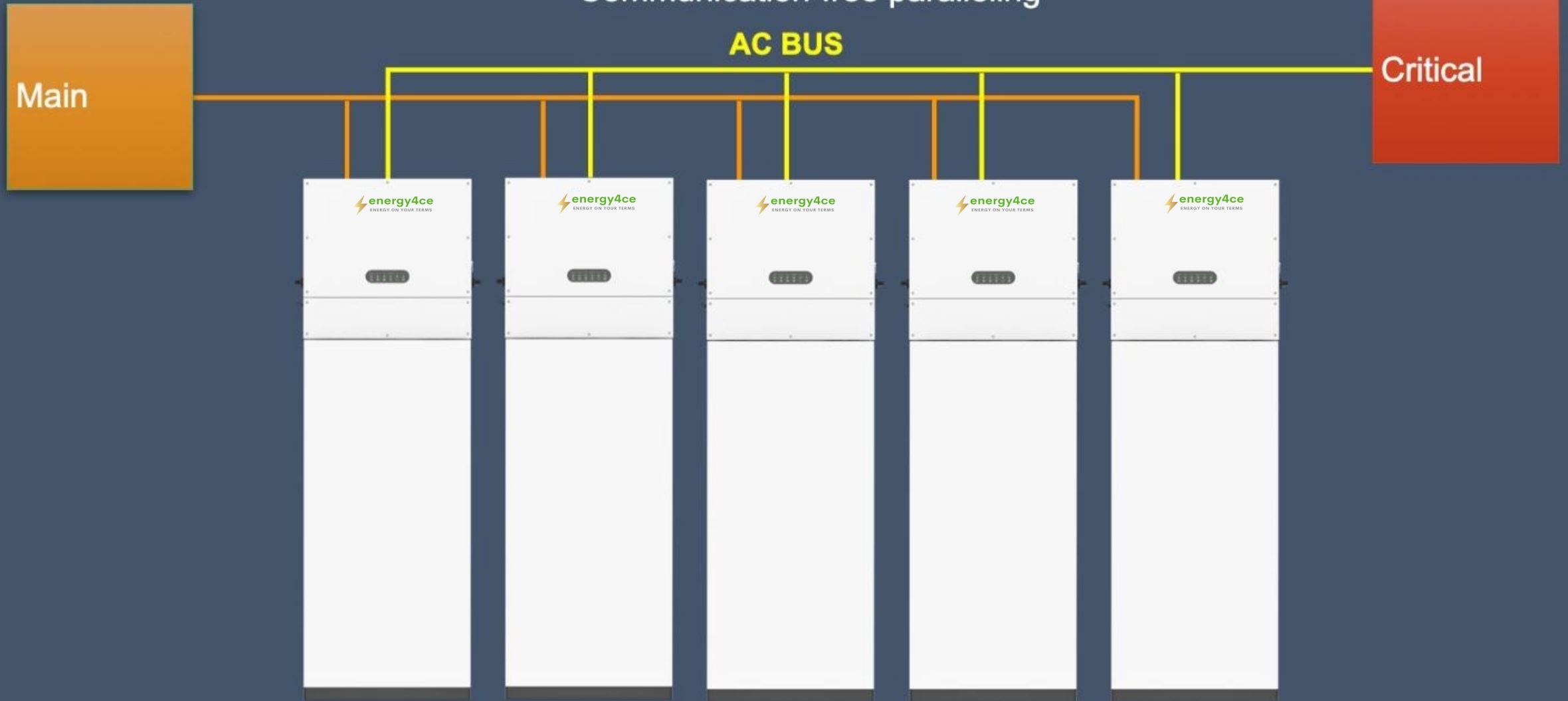
Communication-free paralleling

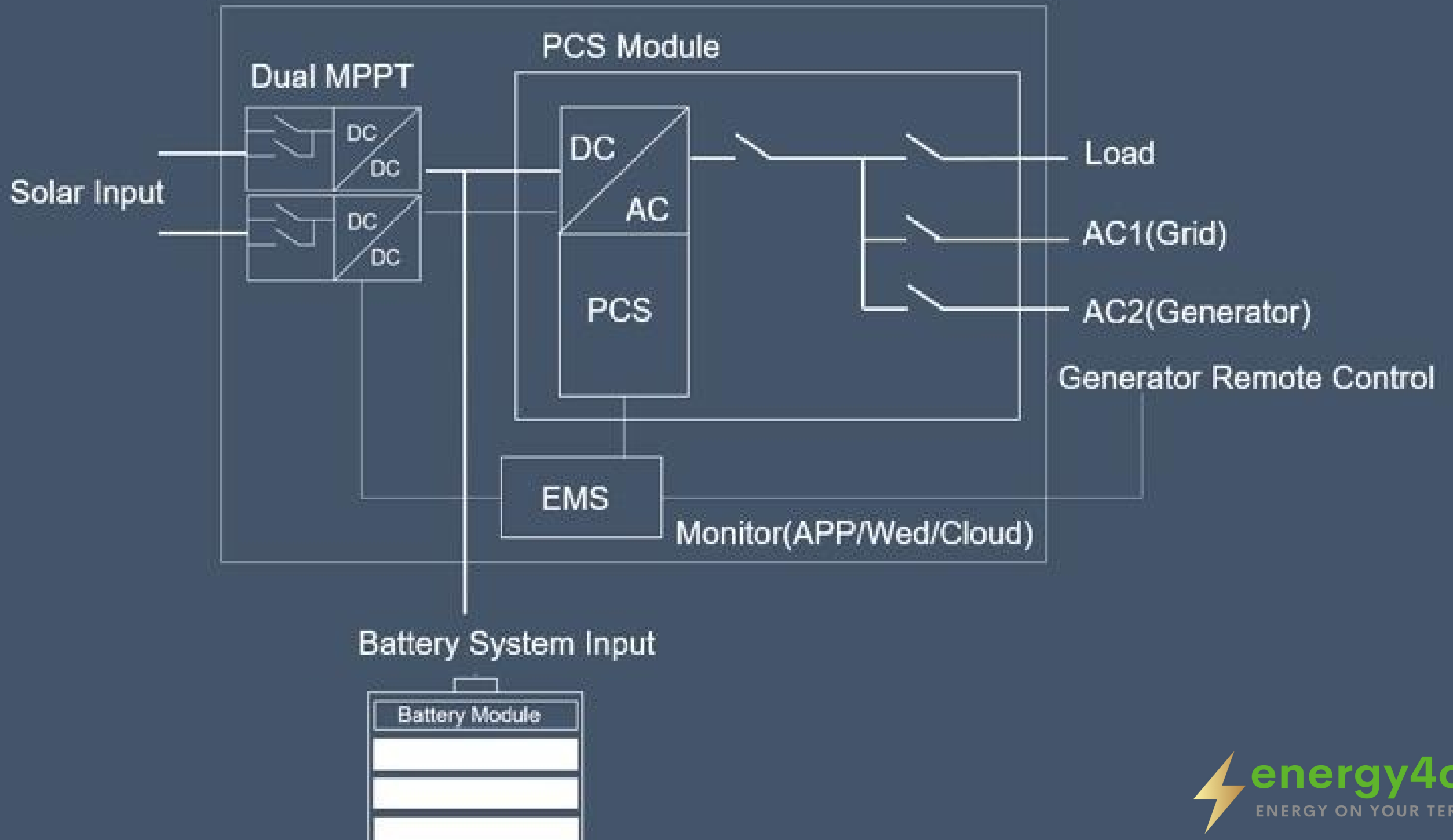




# Seamless System Expansion

Communication-free paralleling





# O T A – Over the Air Technology

## Remote software updates and system maintenance service

Hybrid Inverter



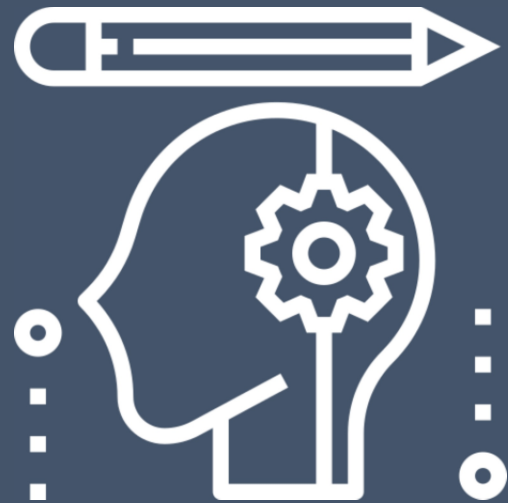
Energy Management System



Battery Management System



# Built-in Energy Management System



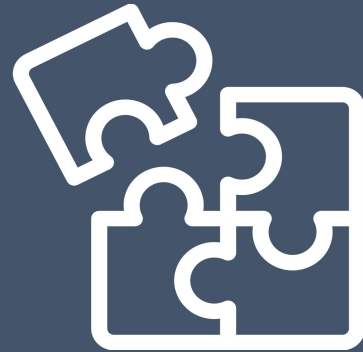
- On / Off Grid Mode Automatically Switch
- Monitor and Manage Battery System
- Intelligent Charging Forecast
- PV Energy Forecast
- App/Cloud Control
- TOU Arbitrage / Demand Charge Reduce

# 24/7 Reliable Power During Outages



# 30min Quick Installation

## Quick Coupler Design



## Lightweight Module

Universal PCS: 82lbs

Aluminum battery cabinet: 71lbs

Plug-in lithium-ion battery: 44lbs each

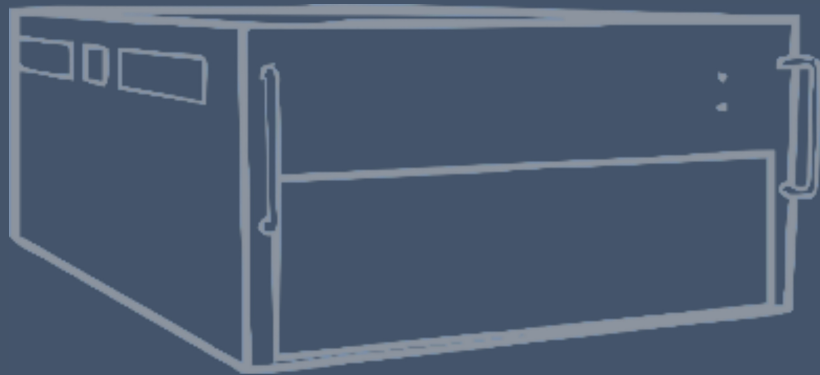
Plug-in BMS: 18lbs

## Protection



- AC Phase Sequence Self-Adaption
- Anti-Islanding
- Low Voltage Ride Through
- DC Lightning Protection
- Fan/Relay Failure
- OLP
- DC/AC OCP
- AC/DC OVP/UVP
- OFP/UFP
- OTP

## Modular Design



Power Module Certified



Easy to ship

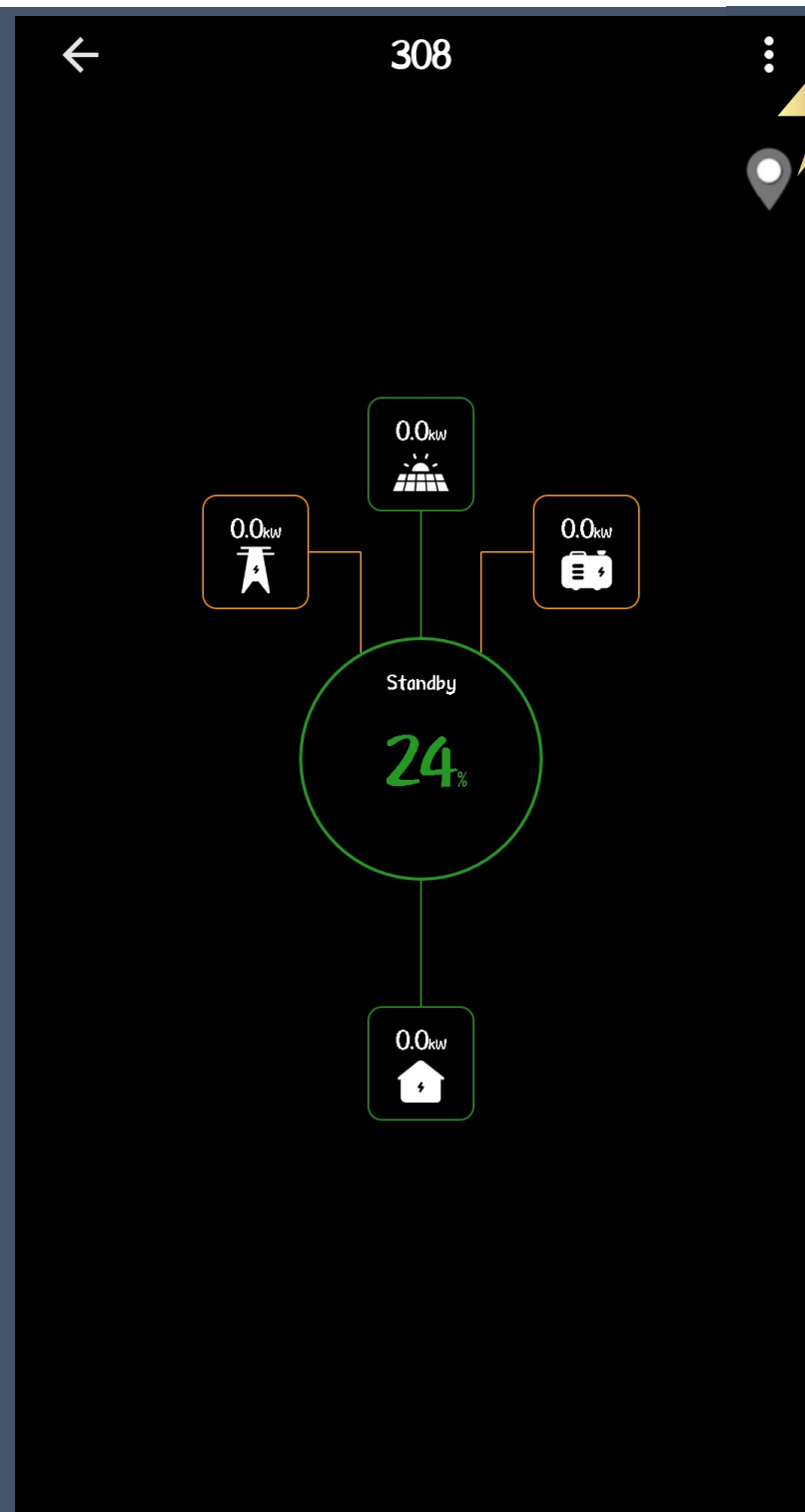
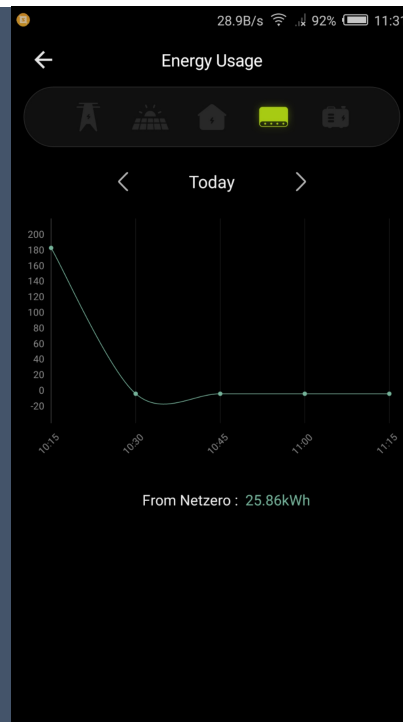
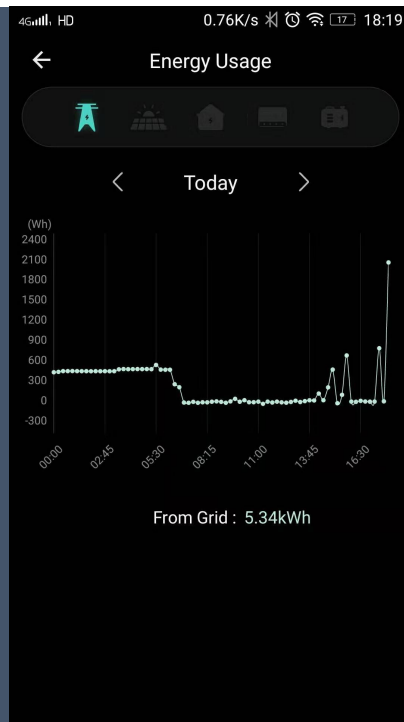
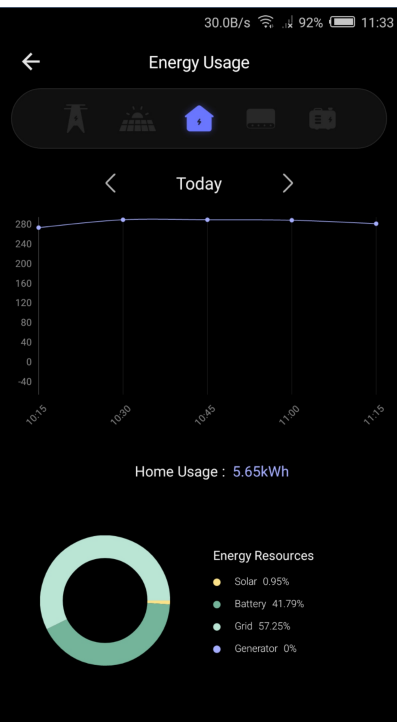


Easy to install

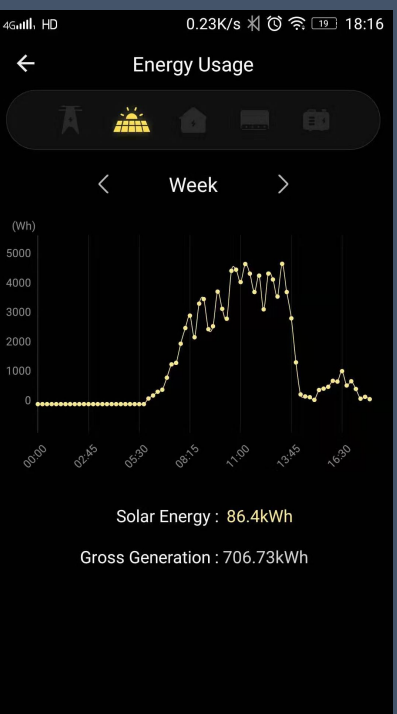


Easy to maintain





App



- All
- 345  
2% 0kW Standby
  - AA-60-1905-01-0127-338
  - 555  
40% 0kW Standby
  - AAA2-0001-AA60-1601-015
  - 784  
13% 0kW Discharging
  - AA-60-1905-01-0002-368  
5% 0kW Standby
  - 266  
32% 0kW Standby
  - 705

Device Information

Name	025
Model	PNZ-BBS1-V1
Firmware	nz-1.2-4971
IP address	172.16.16.102
ID	0123EB8A4DA1ECB7EE
SN	AA-50-1812-01-0006-025
Initial startup	2019-01-26 18:13:10
Served	3326 min

AA-50-1812-02-0009-073  
01231ACC21BD84D5EE  
PNZ-BBS1-V1

Belongs to..  
info@scorpionbayhotel.com  
root@root  
lzheng@uabc.edu.mx  
lesly.adkins@pomcube.net

MEMO

SBH-02

FAVORITE

Configure Chart

Renew config Upgrade now

ACTIONS

Upgrade Rate Plan

Upgrade Scene

Orders

Request Usage

Reboot!!!

LOCATION

Longitude: -  
Latitude: -

### Current demand



NaN kW

NaN kW  
Historical peak

NaN kW  
Today's peak

### Demand trend



### Current solar



0 kW

Total generated

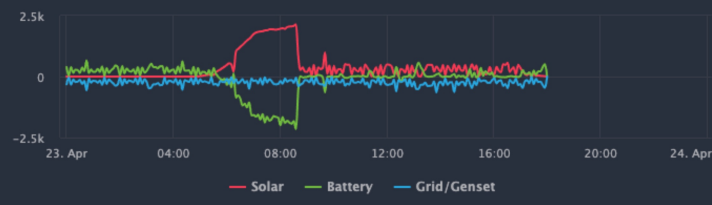
kWh

Today's generated

kWh

V \* A

### Supply trend



### Current battery



-0.334 kW



Soc



Soh

V \* A

### Current grid



0.041 kW

Total imported

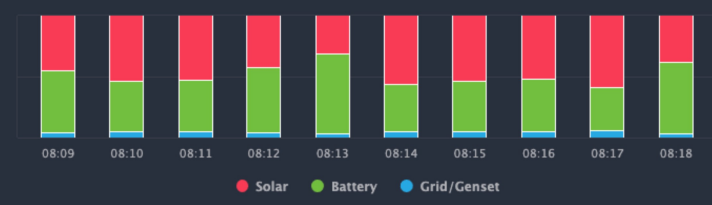
kWh

Today's imported

kWh

V @ Hz

### Supply proportion



### Current supply



Solar 0.0% (0 W)  
Battery 89.1% (334 W)  
Grid/Genset 10.9% (41 W)

# Real All in One ESS System

**Customer Saved by**

PV Inverter

Autotransformer

Transfer Switch