Solar Europe Importers
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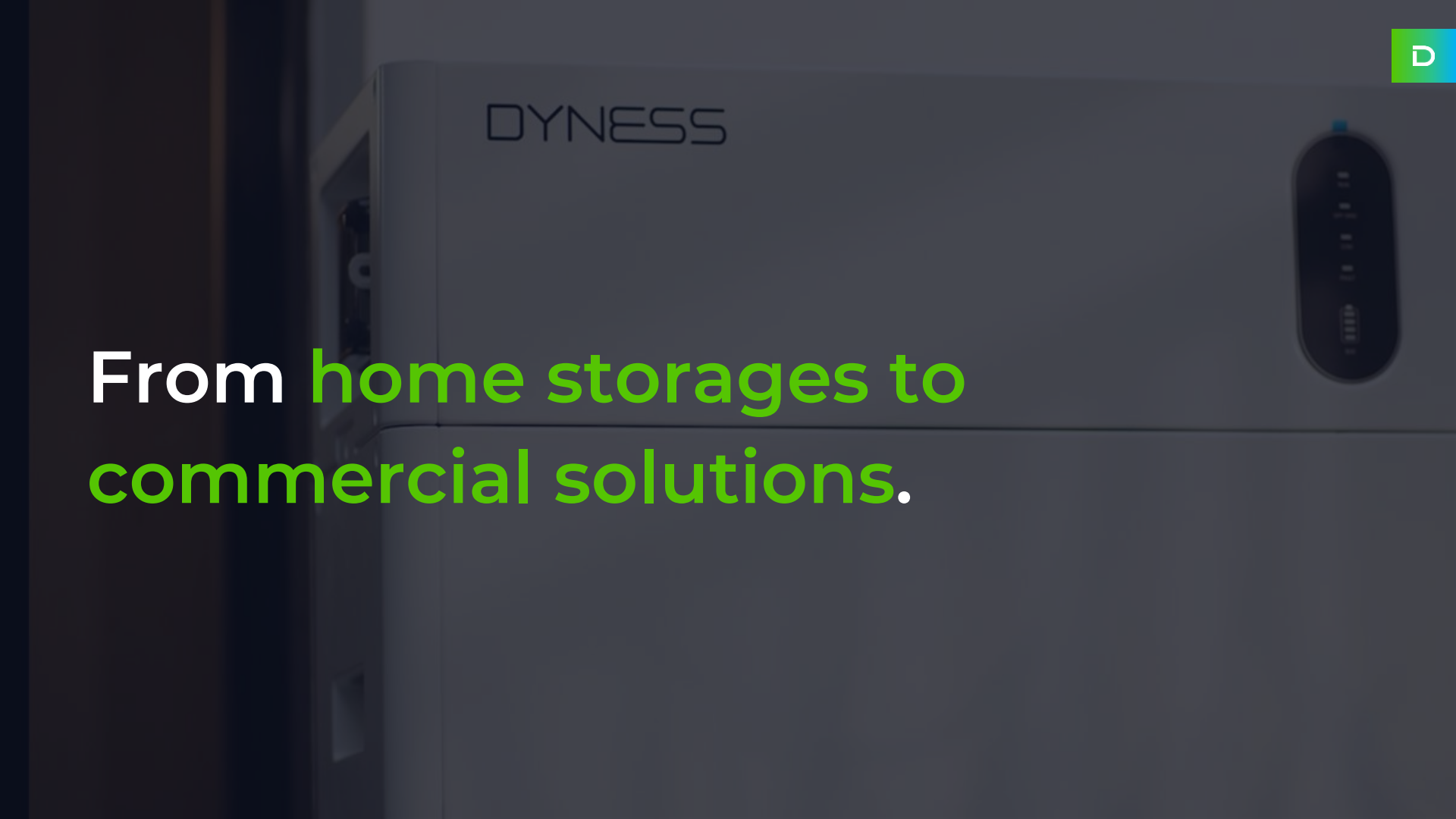
www.solar-europe.co.za
087 654 4800

DYNESS

Discover Your Nature

Why is Dyness the best choice?
Excellence in every aspect.



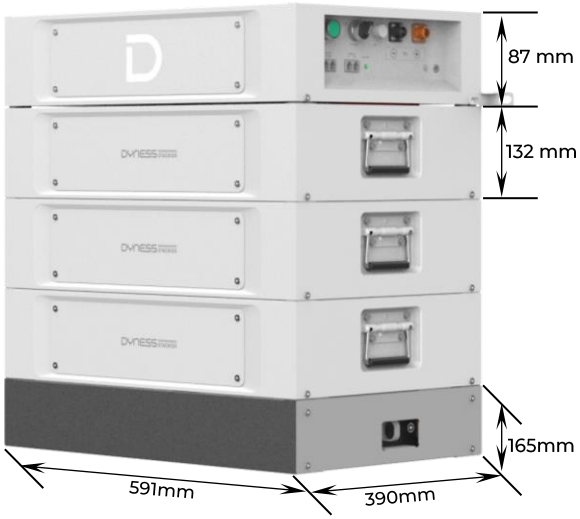
From home storages to commercial solutions.

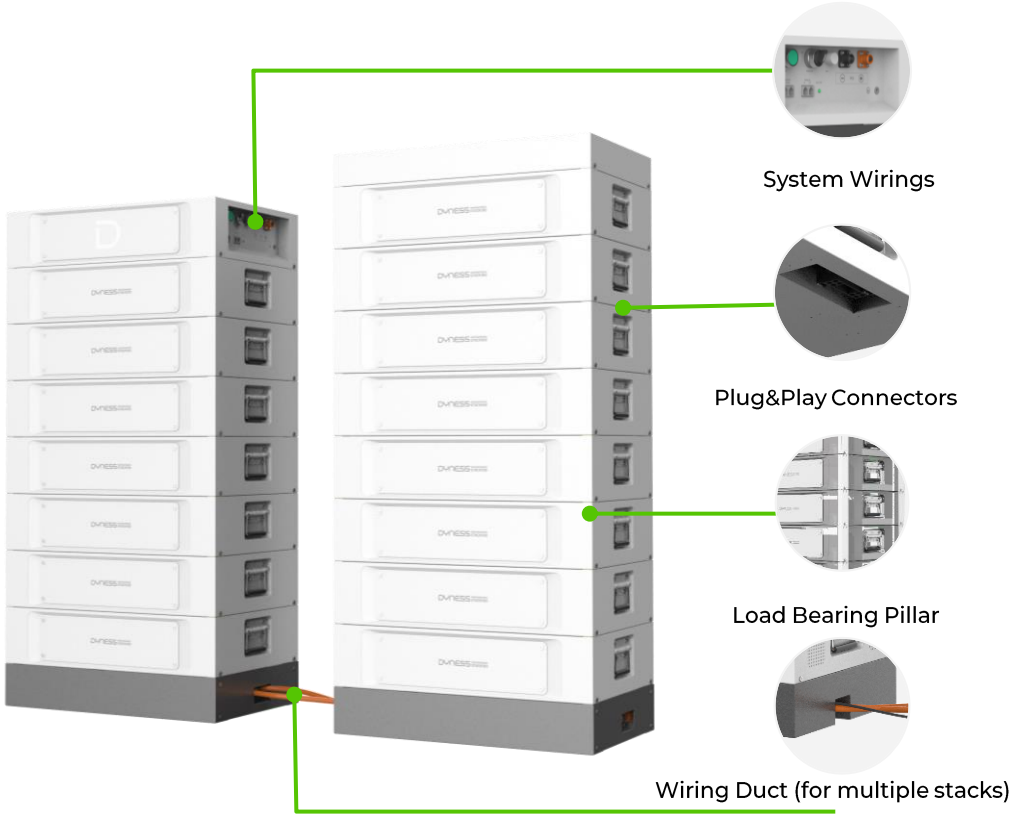
Revolutionizing C&I:
STACK100

Stack100 Overview

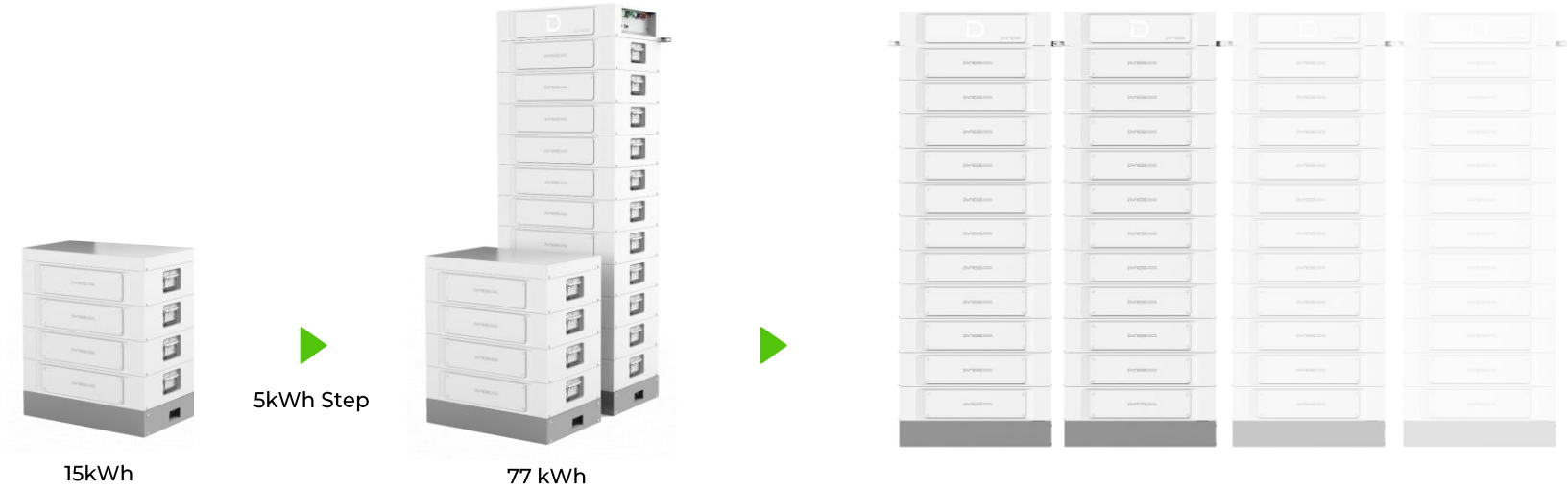
47kg Net Weight

One cluster installation in **30min**





Flexible Expansion



15.4 - 76.8 kWh
3 - 15 Module (max. 11 pro Stack)
180 - 864 V
Free mixing of modules within three years

Up to 920 kWh
Max. 12x in parallel

Easy Installation

1 **Rackless free stacking**
Plug & Play

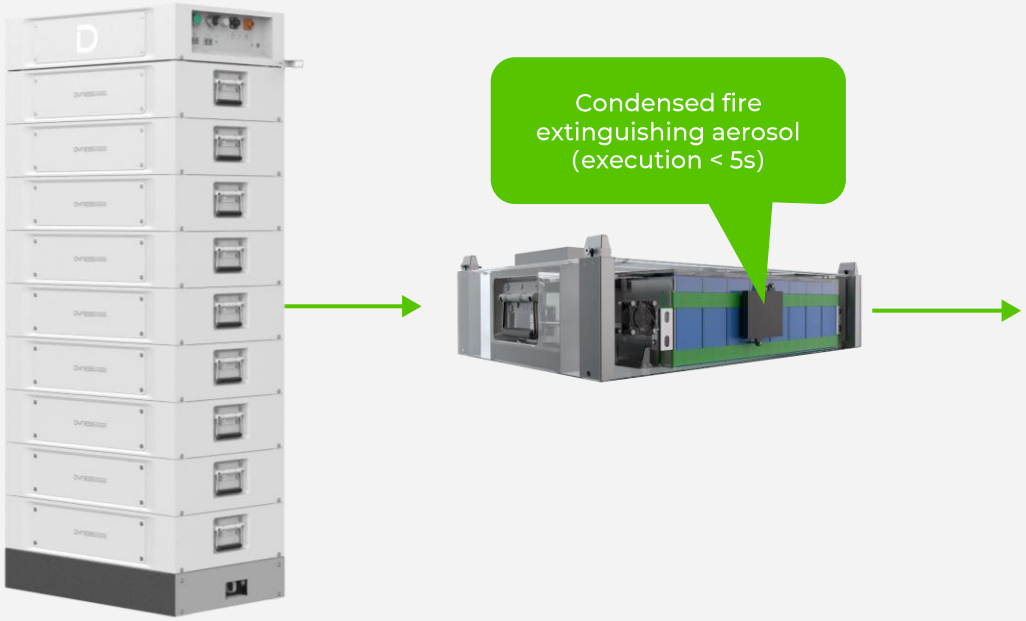
2 **Simple cable plug-in design**
Grounding, DC & COM

3 **Switch on**
Get started!

Ultra safe

Intelligent Fire Extinguishing System, React within 5 seconds

Anti-Firing	Cooling	Shutdown



Long Life

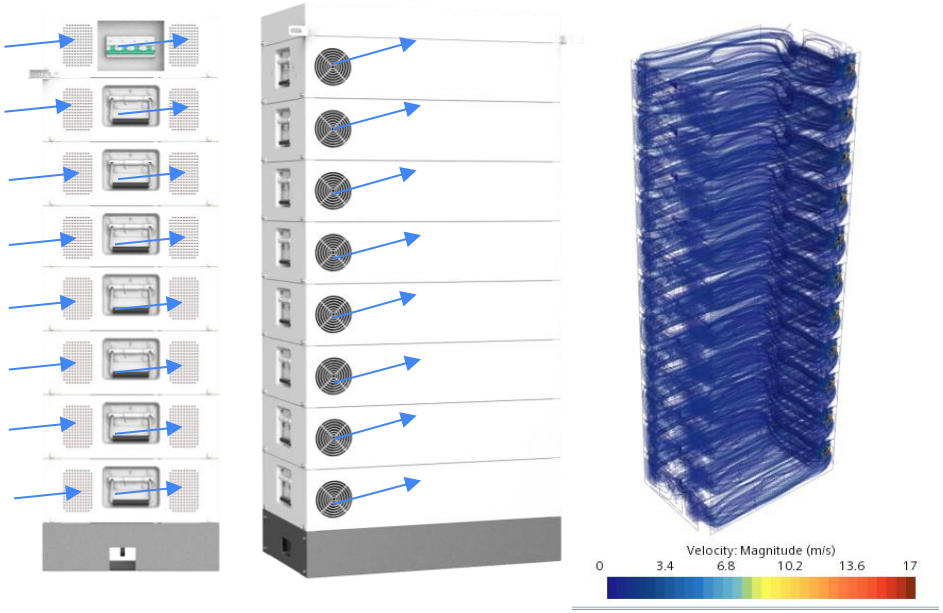
Balanced cooling, Prevents overheating

Longer life and performance

Thermal design with integrated air ducts allows for better heat dissipation and lower temperatures in the batteries.

Smart thermal management enables better warranty:

- **10 years**
- **Unlimited cycles**
- **1 C Rate**

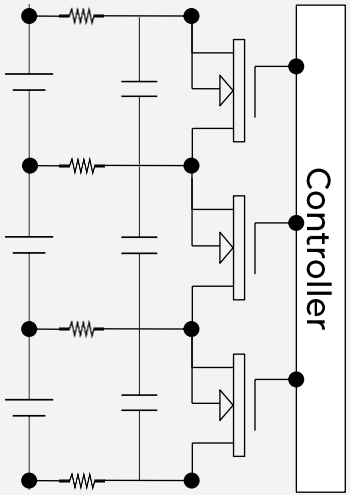


Separate air inlets and outlets

High-precision BMS

Millisecond level status monitor, real time battery management and optimization

System Topology & Operation Algorithm



Passive Ballancing

Charge Ballance &
Static Ballance

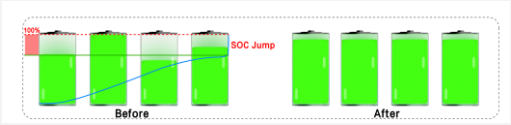
Activation

- PMax Cell Voltage: >3.2V
- Cell Voltage Difference: 10mV

Ballance Ability

- Max 30 cells works simutaneously
- Ballance for Cells and Modules
- Max 100mA Ballancing Current

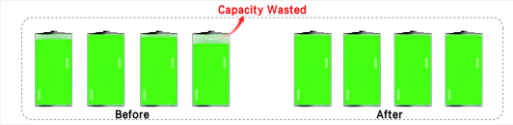
SOC Equilibrium



More Precise
Battery SOC

Higher Cell
Uniformity

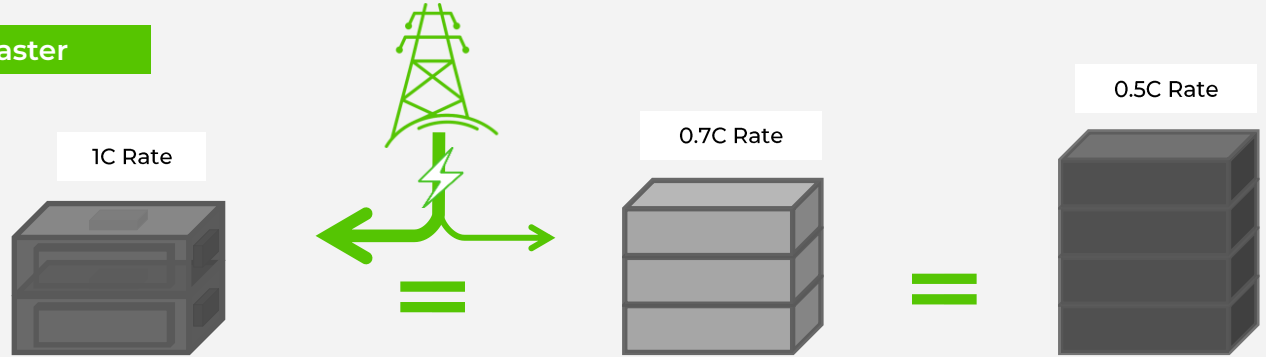
Battery longer
lifespan under
better conditions



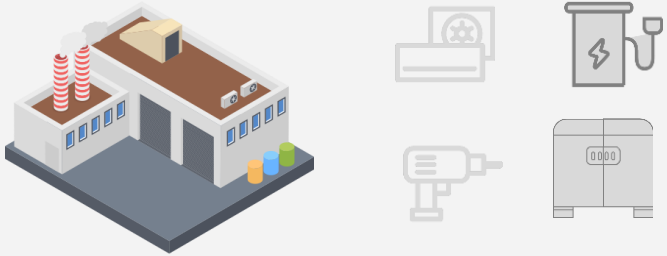
Battery Capacity
Fully Used

1C Rate

Charge Faster



Power more Consumers



Higher C-Rate is Better Choice for:

- Short-term Backup
- With Larger Solar system
- Utility Service
- Electricity Trading / Dynamic Rates

... ...

Save Space & Labor

DYNESS Stack100

Flexible Layout | Plug & Play | Modularized

Traditional solutions

- Heavy - need Crane
- Fixed Size - Need Specified Space
- Fixed Capacity
- Concrete Base
- Multi Cables
- Fixed Hight
- Assembly work

Smart APP

Real-time system monitoringSmart control and OTA upgrade

Monitoring via Inverter

Communication via:
Inverter, which reads data from the storage BMS

- Battery System Real-time Running Data
- Battery System Real-time Operation Status
- Battery System Historical Data

Battery App

Communication via:
Direct network connection with Dyness Built-in WIFI Module

- Battery System Real-time Running Data
- Battery System Real-time Operation Status
- Battery System Historical Data
- Battery Cell Voltage and balance
- Battery Cell Temperature
- Battery System recycling Status, etc.
- Remote Firmware Updating

Mult-Scenario support

Farms

Outdoor Cabiner

Restaurants

Charge Station

Partner Inverter Brands:

solis

SOLINTEG

Sinexcel

GOODWE

Growatt

Deye 德業®

Perfect Compatibility

Stack100 - 20~40kWh

S6-EH3P-12~20K-H

System Combination:

Solar Capacity: 15~40kWp
Inverter: 12~20kWac
Battery Capacity: 15~40kWh

Charge Power: 12/15/20kW
Backup Function Integrated
100% 3p Unballance Output

Suitable Applications:

Restaurant

Shops

Base Station

Stack100 - 30/100kWh

S6-EH3P(30-50)K-H

System Combination:

Solar Capacity: 40~100kWp
Inverter: 30~50kWac
Battery Capacity: 30~100kWh

Charge Power: 30~50kW
Backup Function Integrated
100% 3p Unballance Output

Suitable Applications:

Community

School

Charge Station

Farm

Perfect Compatibility

Stack100 - 40~100kWh

GW50K-ET

STS BOX

AC COUPLE & HYBRID

System Design: 50~100kWp + 40/50kWac + 50~126kWh

Max Charge Power: 55kW

Optioal Backup Solution（Seamless Switch）

100% 3-phase Unballance Output

VDE4110 & VDE4105 Compatible

AC & DC SPD Protection (Type Ⅱ)

Suitable Applications:

Small Enterprise

Workshop

Community

School

Charge Station

Farm

DYNESS