



Hope Series Lithium-ion Battery



SHENZHEN GROWATT NEW ENERGY CO.,LTD

GGROWATT



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Product Overview – Li-ion Battery



Hope 4.8L-C1

4.8 kWh / Module

Capacity: 4.8kWh ~ 76.8kWh

Size: 442/480/130mm



Hope 5.5L-A1

5.5 kWh / Module

Capacity: 5.5kWh ~ 66kWh

Size: 440/540/130.5mm



Hope 5.0L-B1

5.0 kWh / Module

Capacity: 5.0kWh ~ 240kWh

Size: 440/480/130.5mm

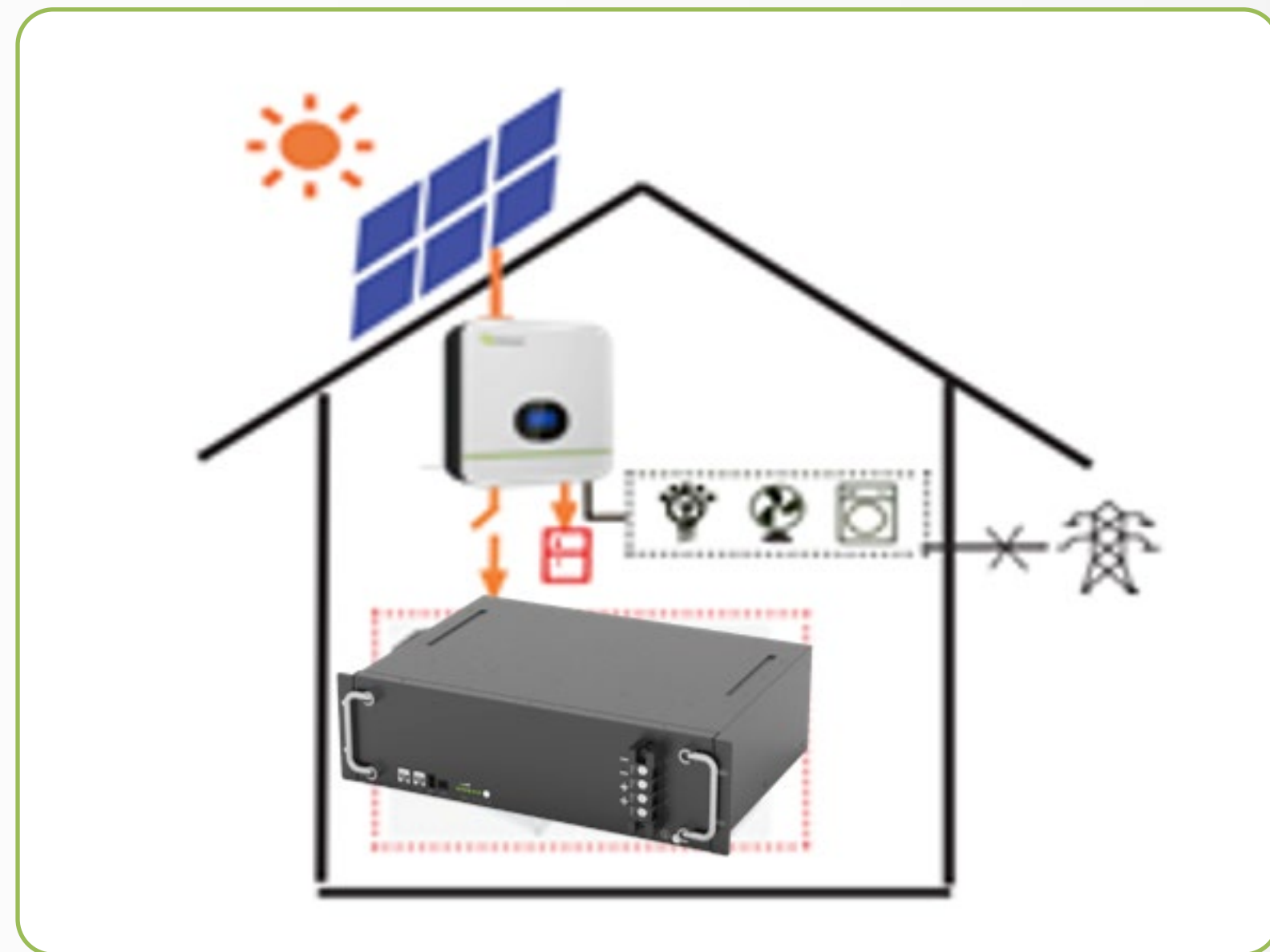
Product Overview

Model name	Hope 4.8L-C1	Hope 5.5L-A1	Hope 5.0L-B1
Total energy	4.8kWh	5.5kWh	5.12kWh
Usable energy	4.46kWh	5.12kWh	5.0kWh
Module Connection	1 ~ 16 in parallel	1 ~ 12 in parallel	1 ~ 48 in parallel
Nominal voltage Range	42-54V	51.2V (40-58.4V)	51.2V (40-58.4V)
Max.Charging/discharging power	5kW/5kW	12kW/12kW	5.12kW/5.12kW
IP degree	IP 20	IP 20	IP 20
Operation temperature	-10 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C
Dimension(W*D*H mm)	442*480*130	440*540*130.5	440*480*130.5
Weight	45kg	45kg	43kg
Communication	CAN/RS485	CAN/RS485	CAN/RS485
Battery cycle life	9.7MWh (throughout)	>6500 (25° C, 0.2C,)	>6000 (25° C, 0.2C,)
Warranty	5 Years	5 Years	5 Years

Leading Features

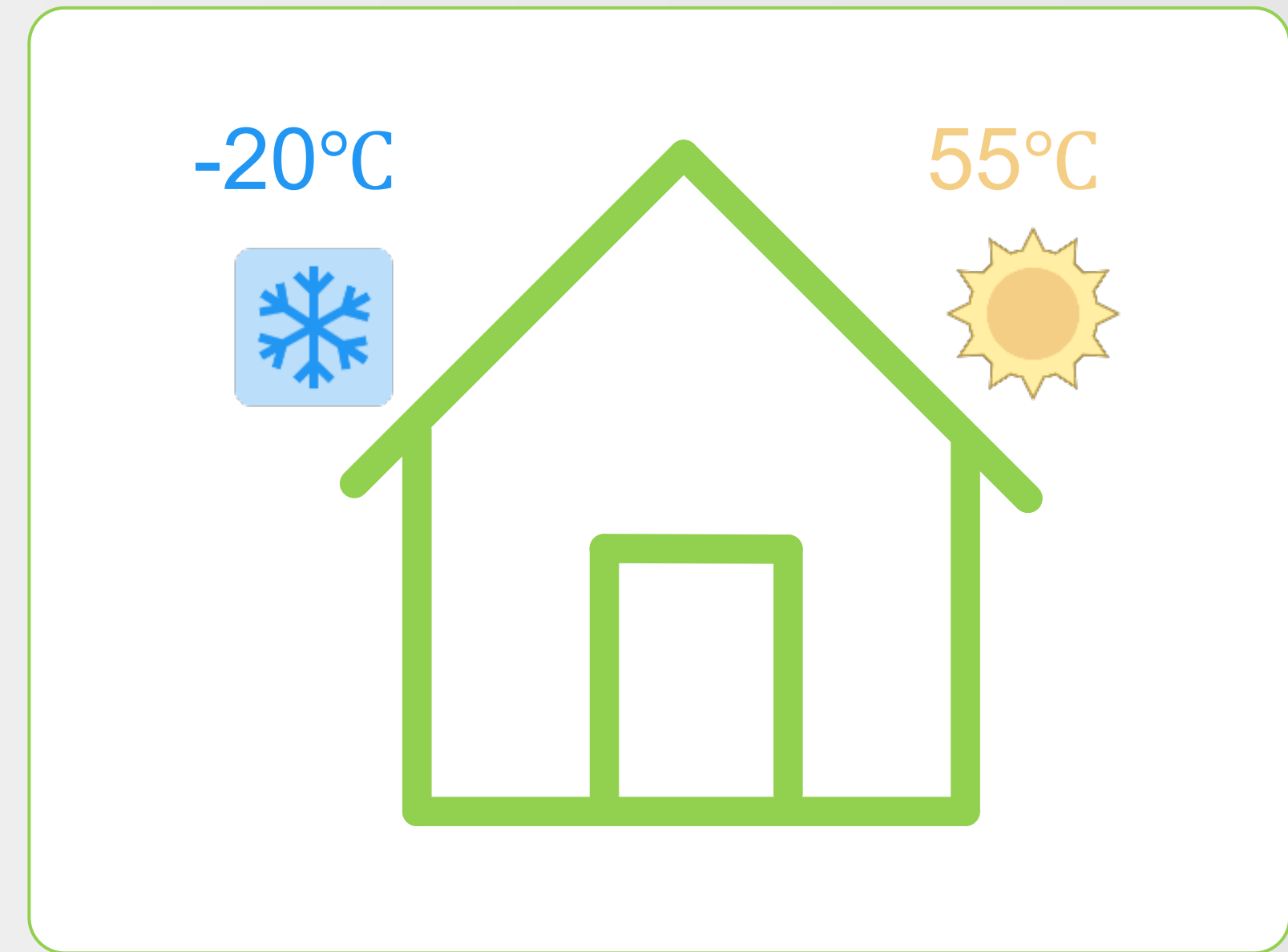
Compact Size and Easy Installation

45kg/4.8Wh; 45kg/5.5Wh; 43kg/5.0Wh



Wide Working Temperature Range

Operation temperature: -20°C ~ 55°C



Leading Features

Natural Cooling

Natural cooling providing optimum efficiency and quiet home environment



Modular Design

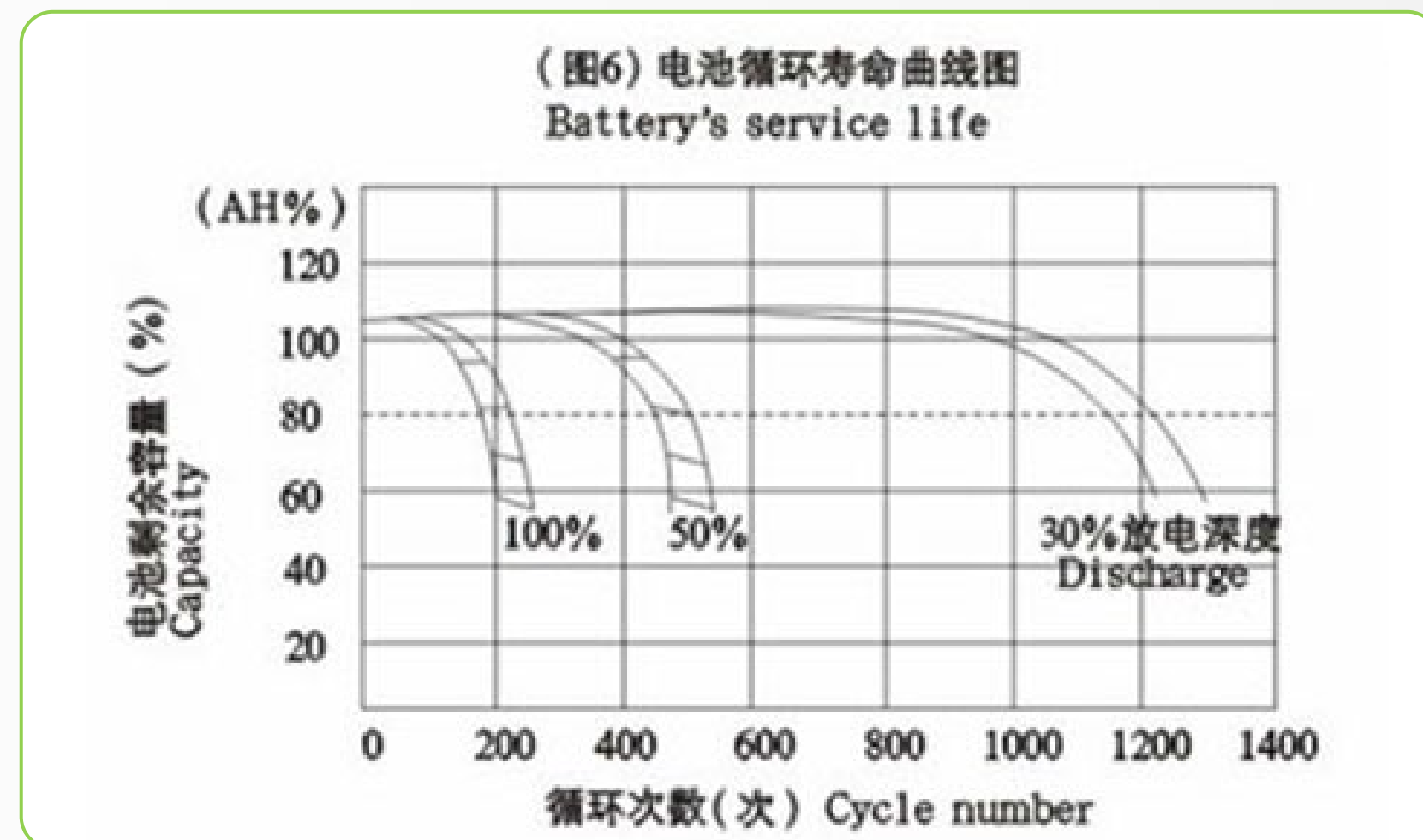
Modular design flexible for installation and capacity expansion



Leading Features

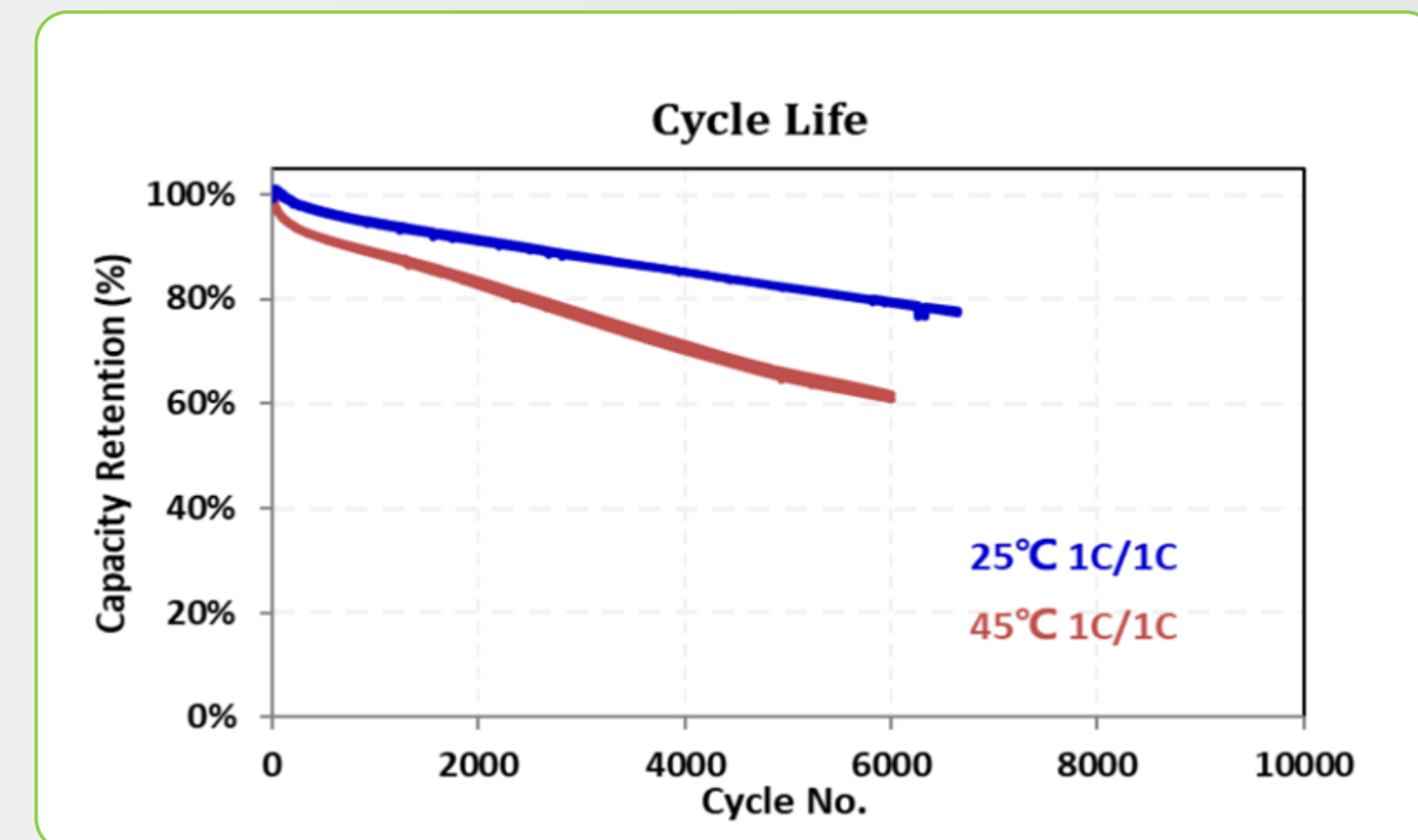
Cycle life compare with Lead-acid battery

Lead-acid battery



Cycle life 300-500 @60%DoD

Lithium-ion battery

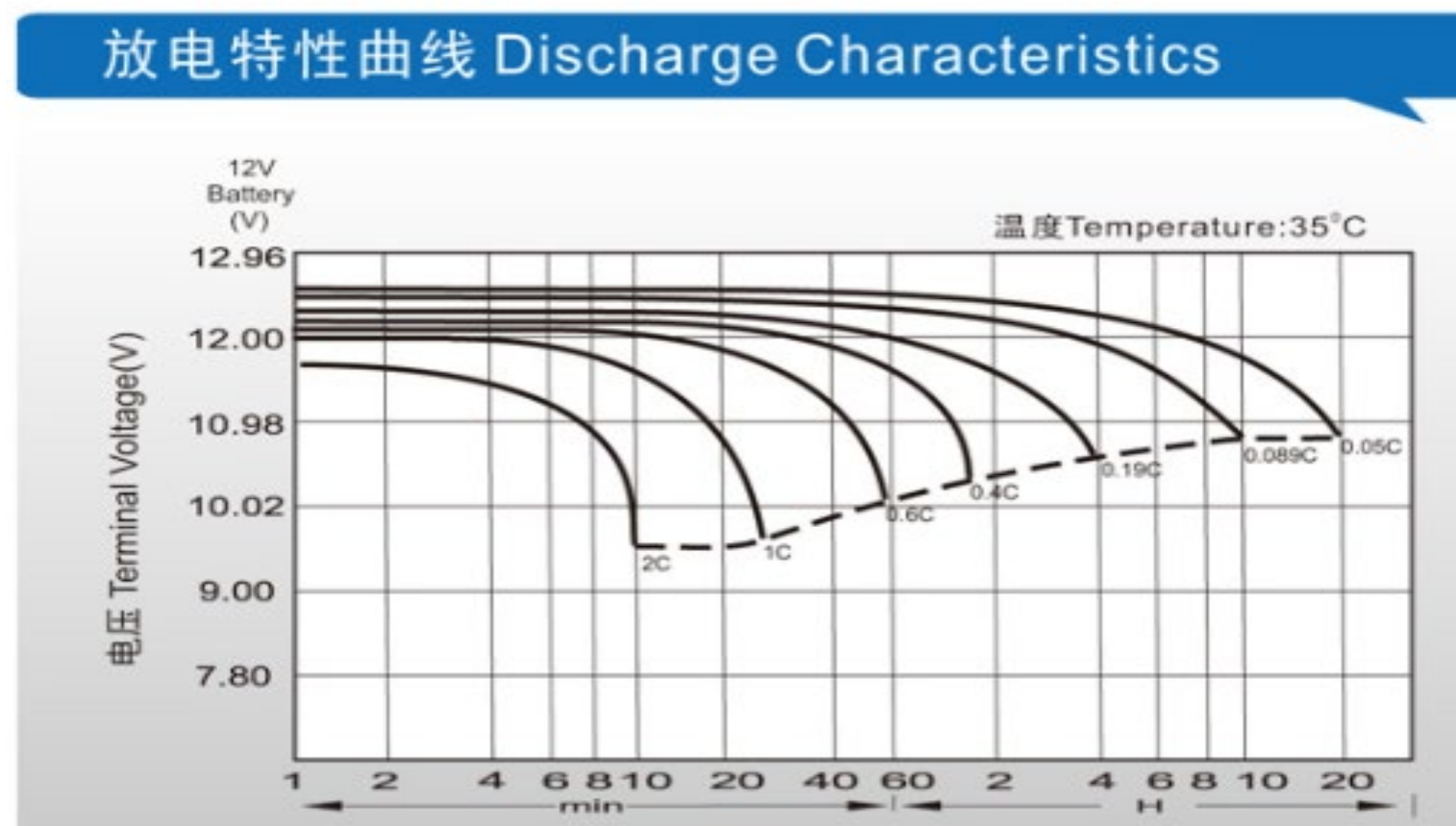


Cycle life will up to **6000** @60%SOH

Leading Features

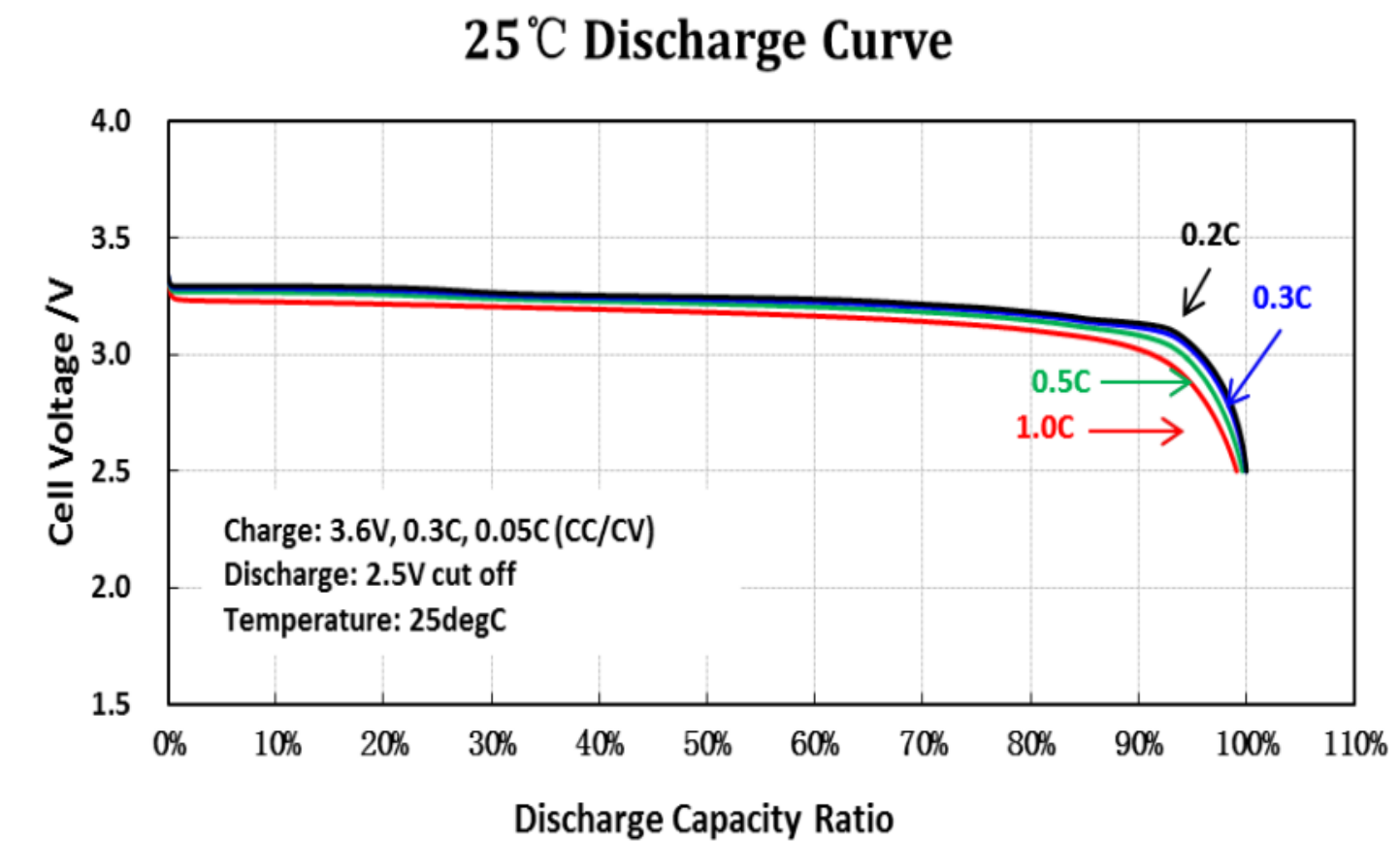
Discharging ratio compare with Lead-acid battery

Lead-acid battery



Only 40% DOD @ 1C discharging ratio

Lithium-ion battery



100% DOD @ 1C discharging ratio

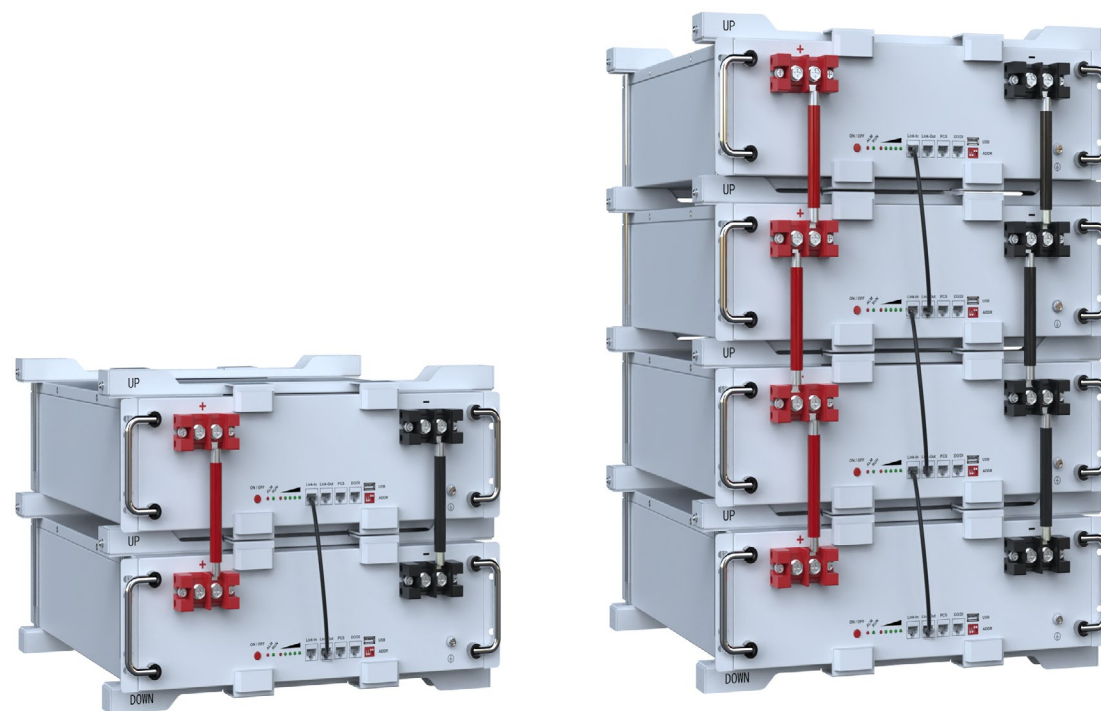
Usable energy of 1kWh battery

Lead-acid 0.4kWh vs. Li-ion 1kWh

Leading Features

Smaller installation space

Lithium-ion battery



High energy density and compact size,
modular design to save installation space

Lead-acid battery

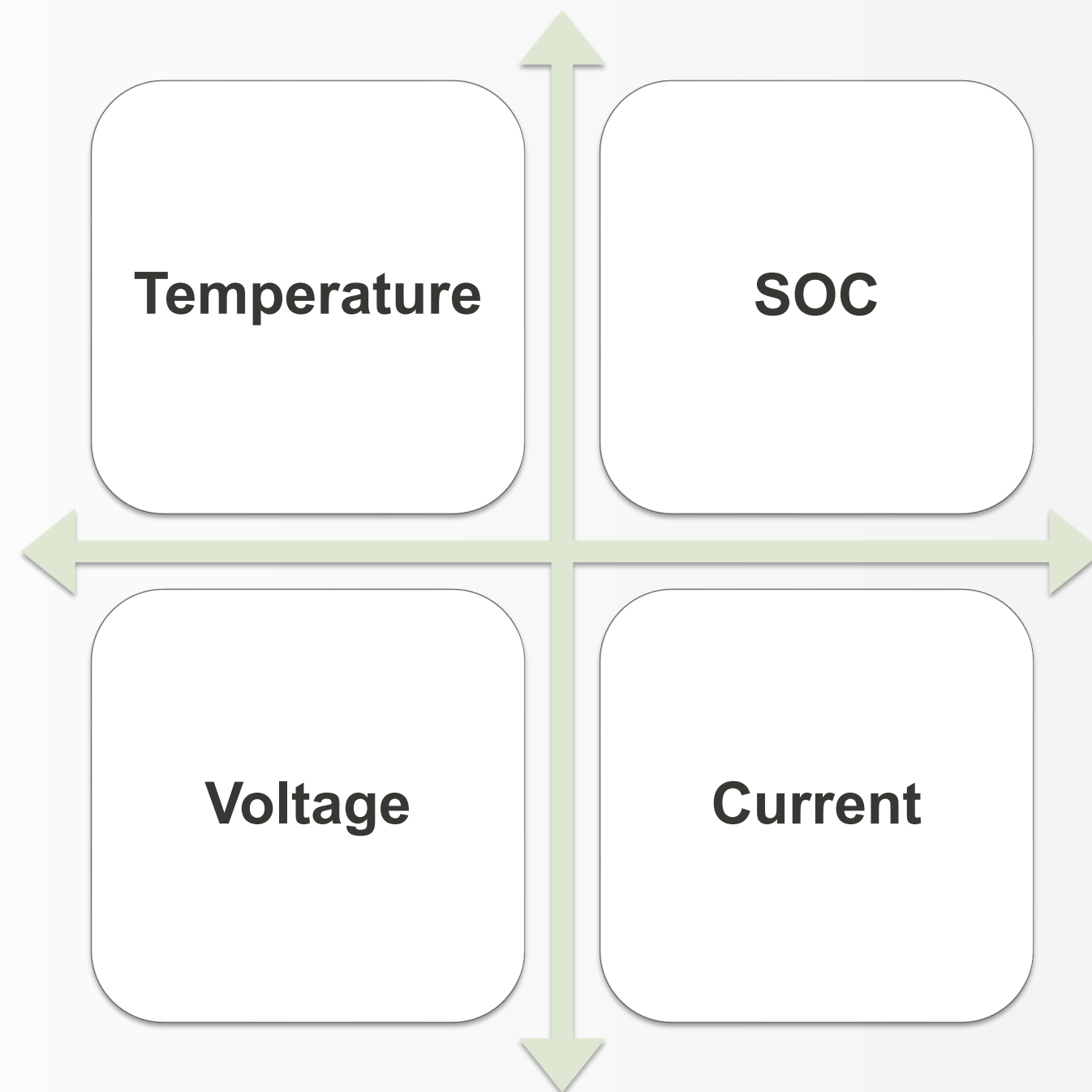


Low energy density design need
more installation space

Safe and Reliable

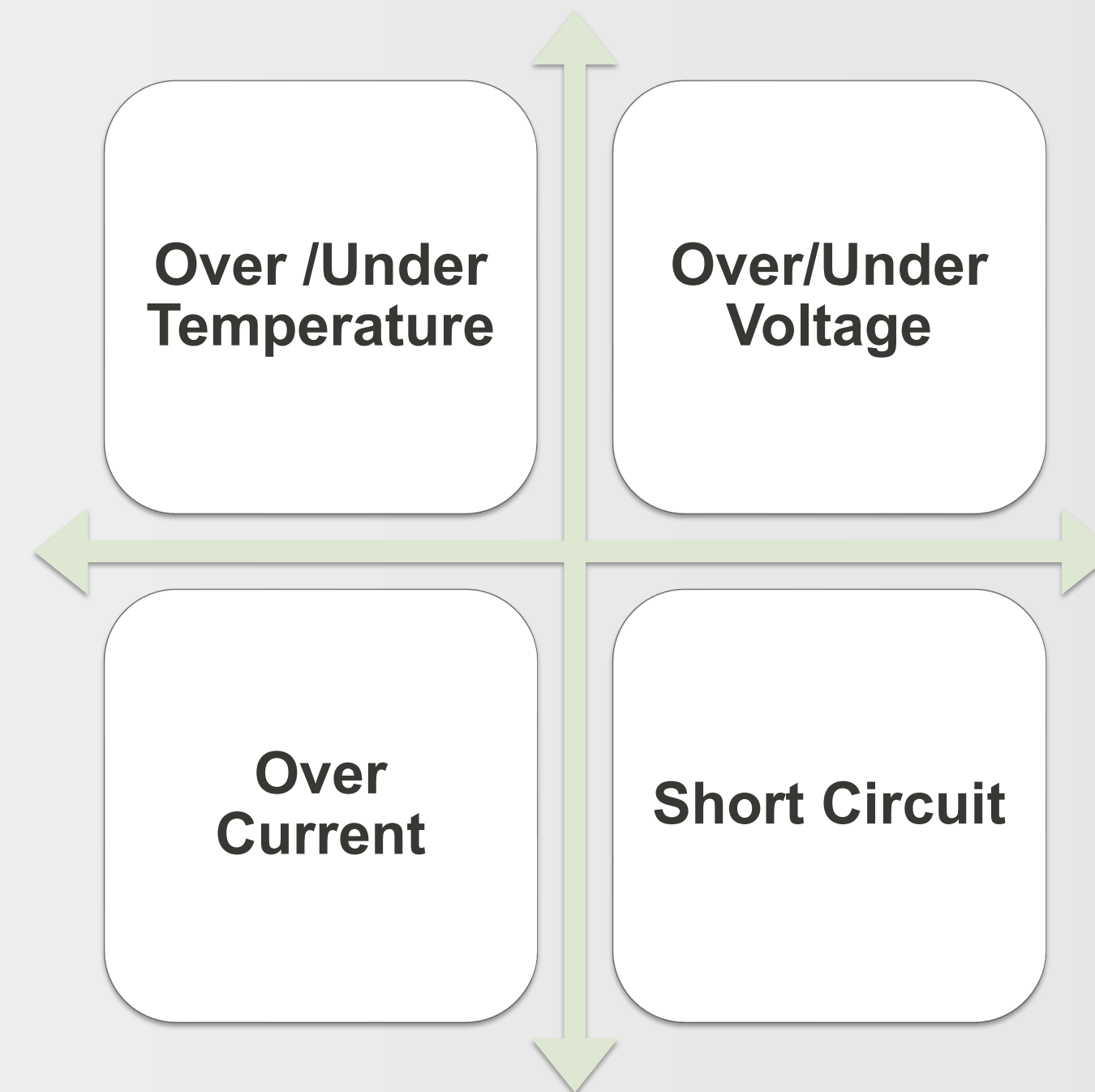
Cell Monitoring

Not only monitor battery module data, but also monitor each cell security status

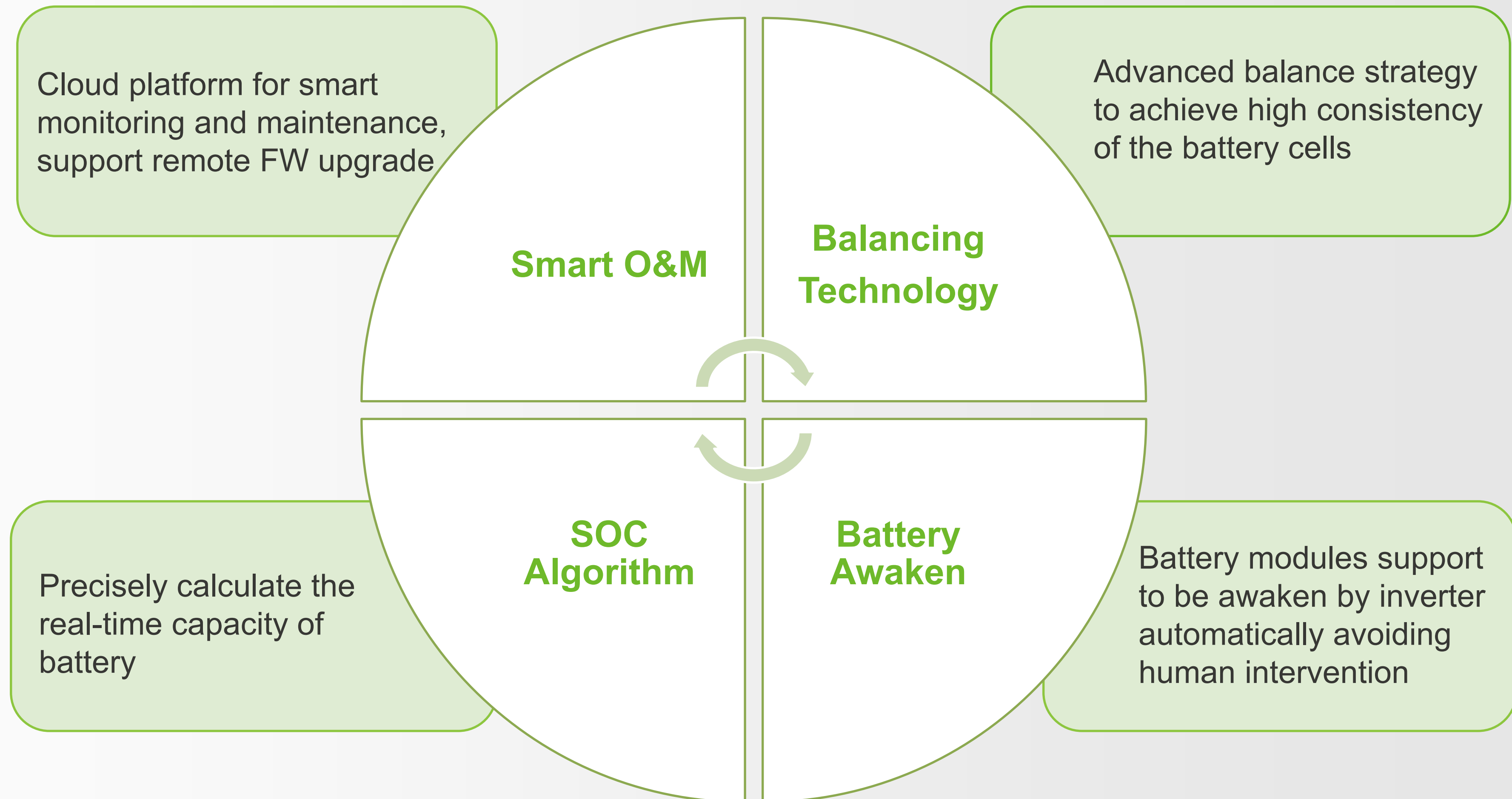


Full Protection

Provide full-protection for the whole battery system



Advanced Technology



System Flexibility

Flexible Capacity Expansion



Max. 6 modules in parallel for Hope series battery kit, Display screen(optional)

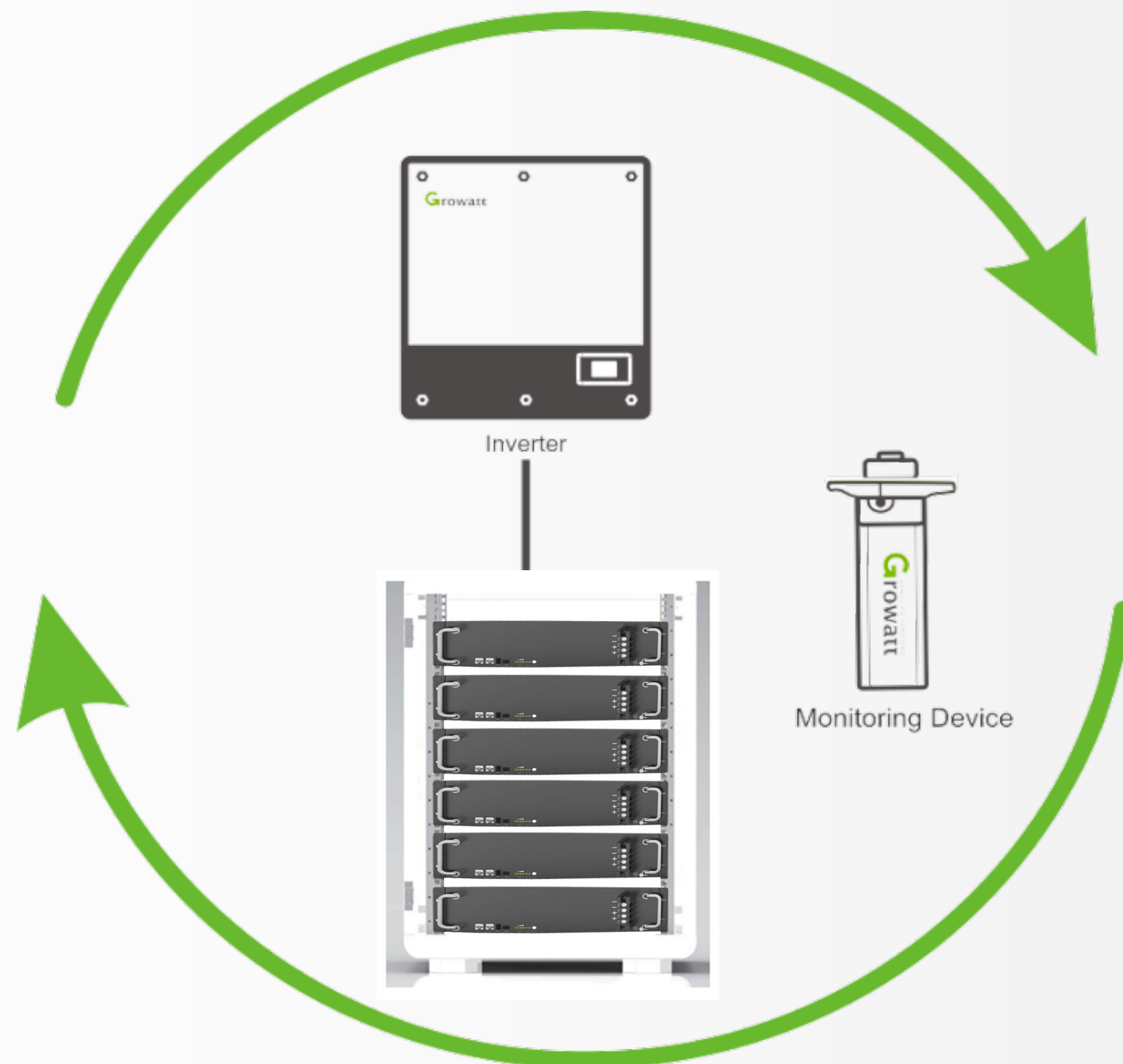
System Flexibility

Compatible with different off-grid inverters

Battery		High Frequency Inverter (Off-grid)				
Model	Protocol type	SPF 5000TL HVM SPF 5000TL HVM-P	SPF 3000TL LVM-48P	SPF 3000TL HVM-48	SPF 5000TL HVM-WPV SPF 5000TL HVM-WPV-P	SPF 3500-5000ES/US SPF 3000TL LVM-ES SPF 6000 ES Plus
ARK 2.5L-A1	L51	CAN	CAN	CAN	CAN	CAN
AXE 5.0L-C1	L51	CAN	CAN	CAN	CAN	CAN
Hope 5.5L-A1	L51	CAN	CAN	CAN	CAN	CAN
Hope 4.8L-C1	L51	CAN	CAN	CAN	CAN	CAN
Hope 5.0L-B1	L51	CAN	CAN	CAN	CAN	CAN
Battery		Low Frequency Inverter (Off-grid)				
Model	Protocol type	SPF4-6KT HVM SPF 4000-6000T DVM	SPF8-12KT HVM SPF 8000-12000T DVM	SC 4860-120 SC 4860-120-MPV	SPF 3000-6000T HVM-G2 SPF 6000T DVM-G2	SPF 6-12KT DVM-MPV
ARK 2.5L-A1	L51	CAN	CAN	CAN	CAN	CAN
AXE 5.0L-C1	L51	CAN	CAN	CAN	CAN	CAN
Hope 5.5L-A1	L51	CAN	CAN	CAN	CAN	CAN
Hope 4.8L-C1	L51	CAN	CAN	CAN	CAN	CAN
Hope 5.0L-B1	L51	CAN	CAN	CAN	CAN	CAN

System Flexibility

Whole System Service



Complete Equipment Supply

Inverter, Li-ion Battery and Monitoring

Whole System Guarantee

Guidance and help of the whole system,

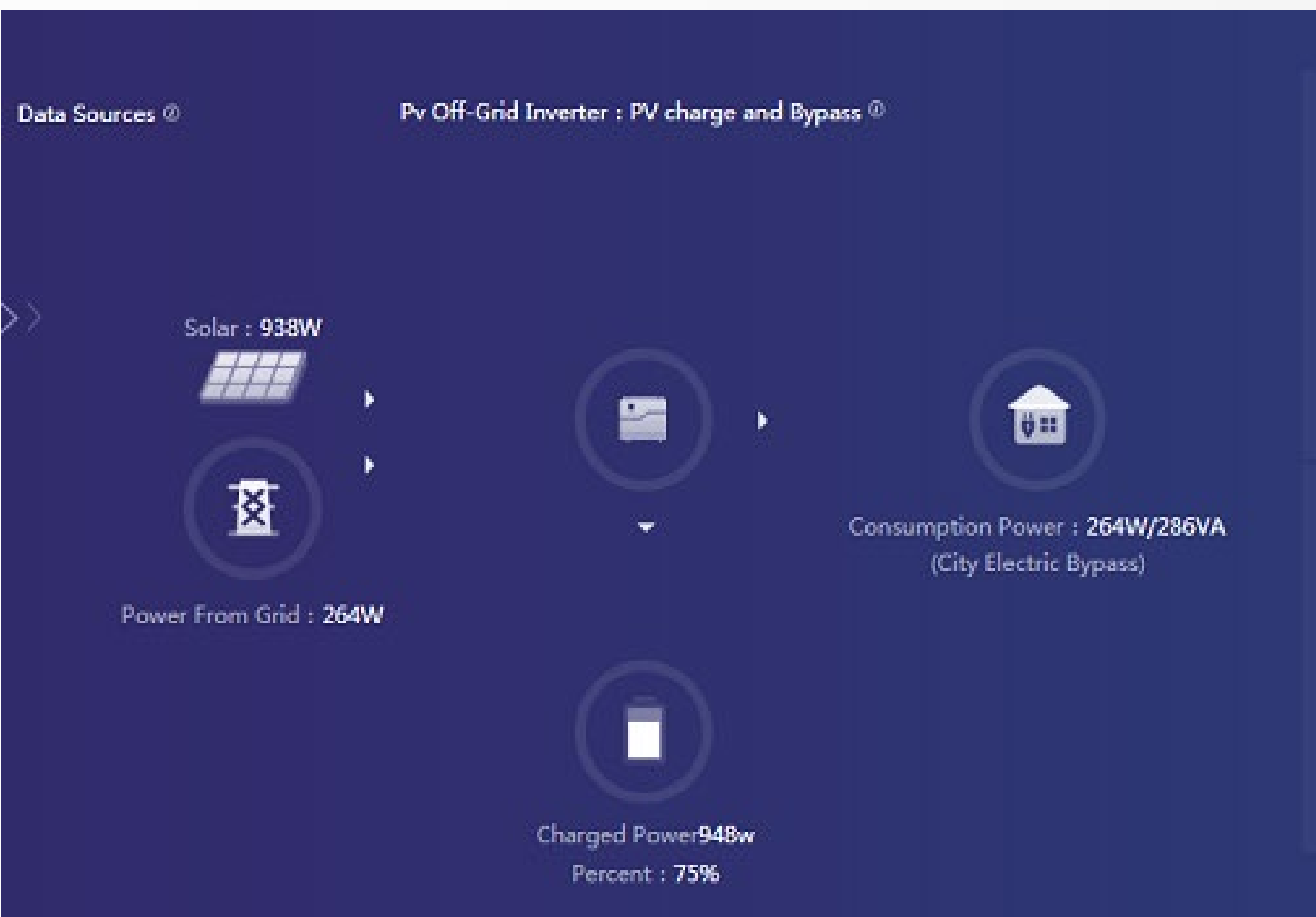
Warranty for all devices,

Professional and local service team

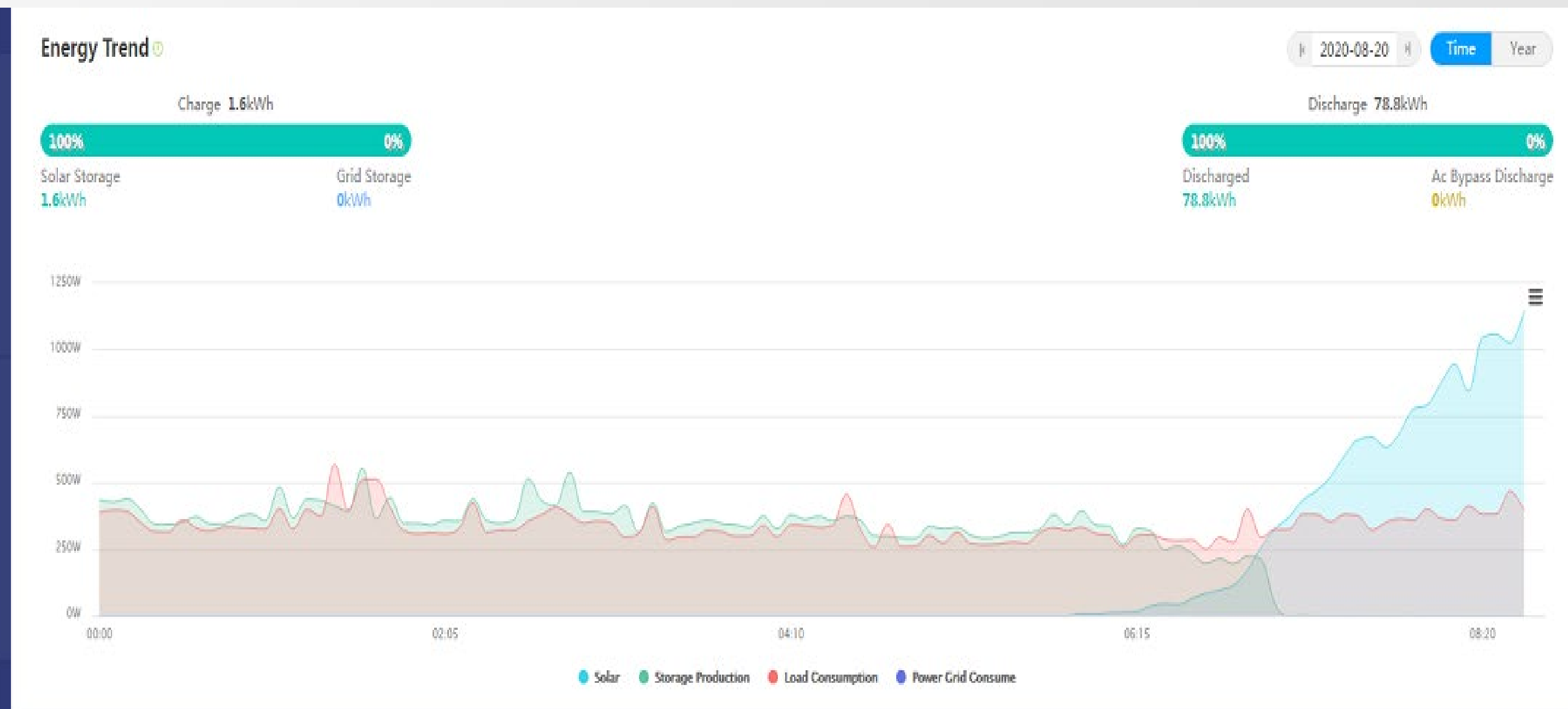
Smart Management

Server Monitor

Real-time data upload status. System states under observation.
Frequent transfer of lost data after recovery



System State

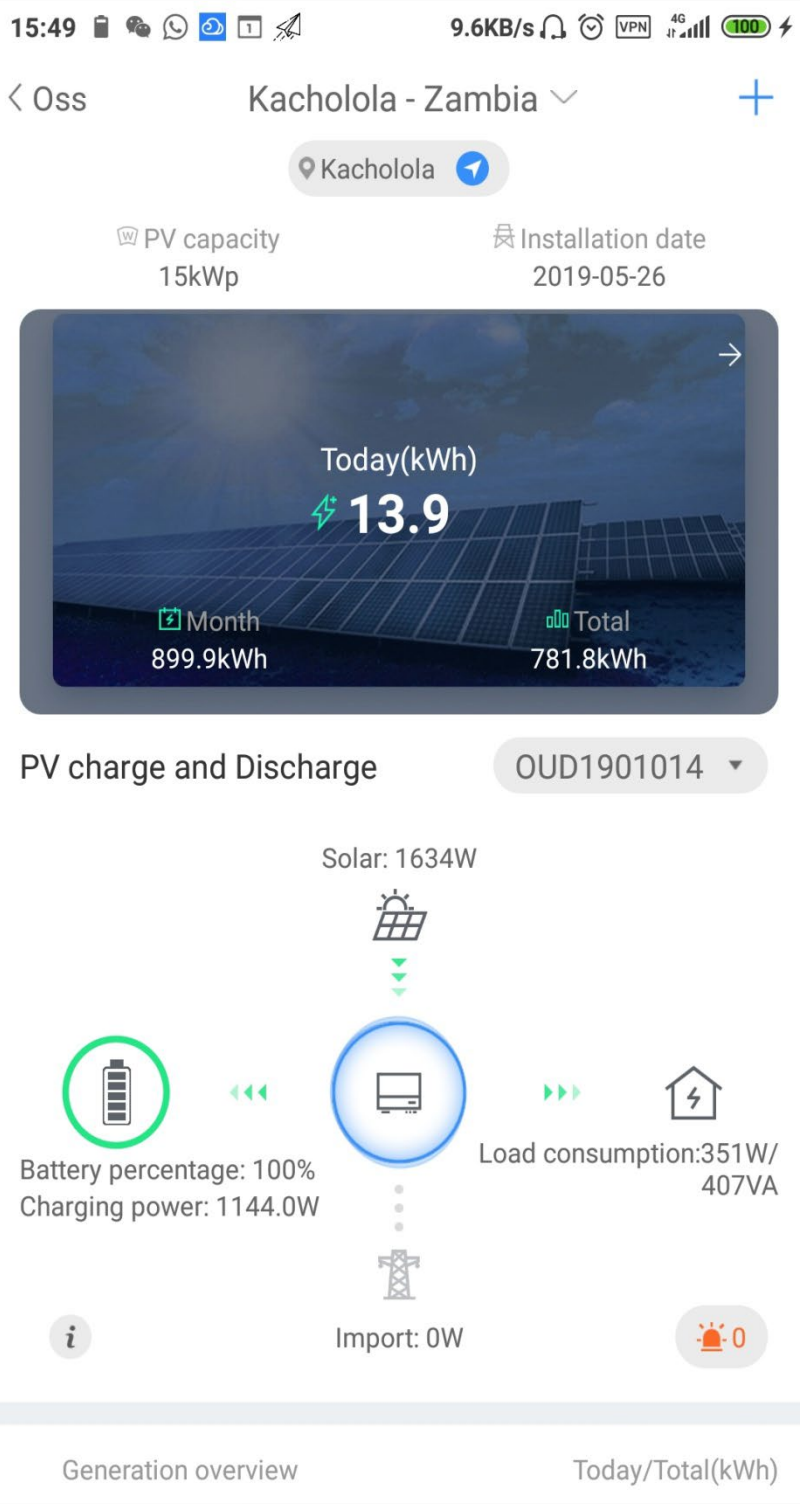


Self-consumption Rate

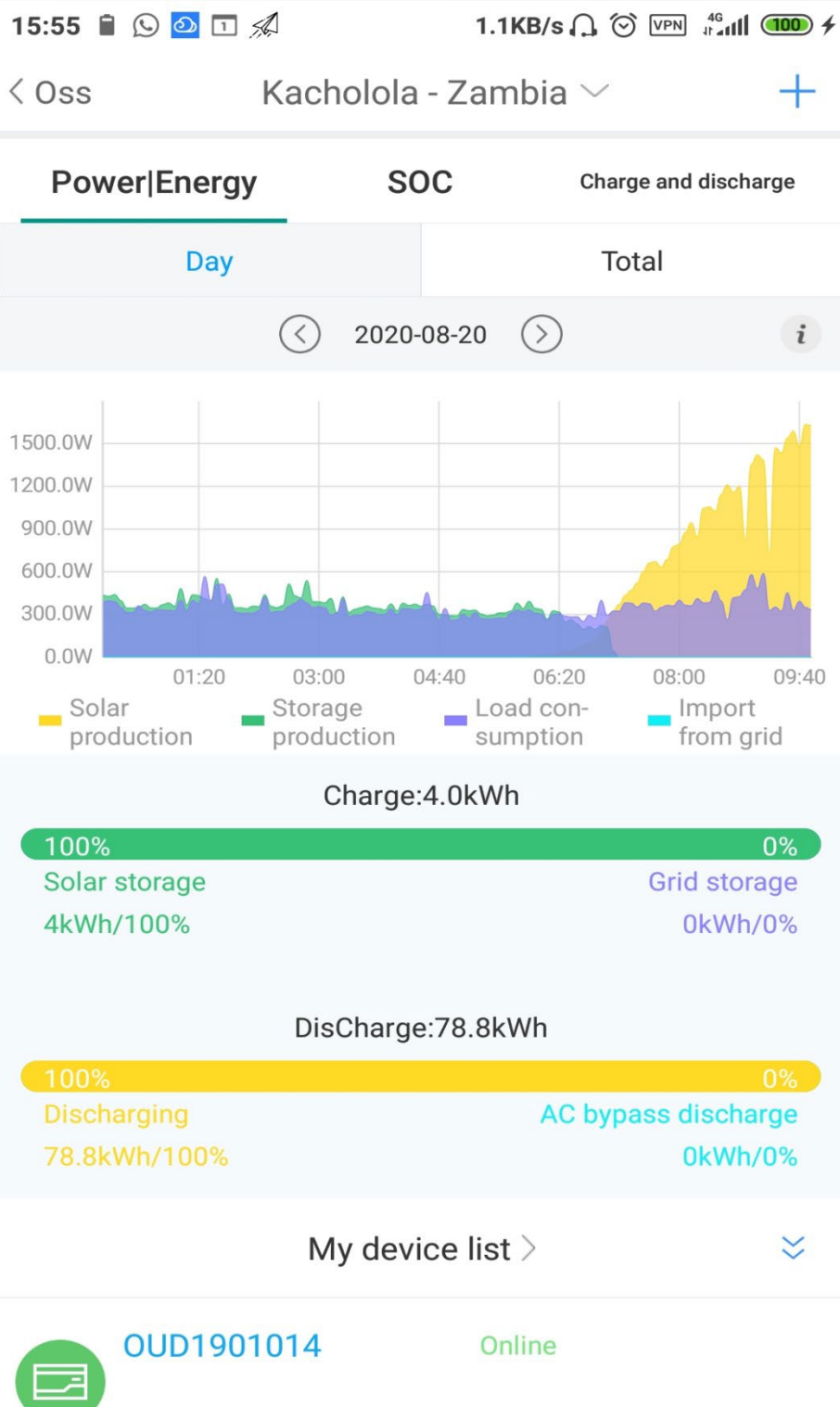
Smart Management

Smartphone App

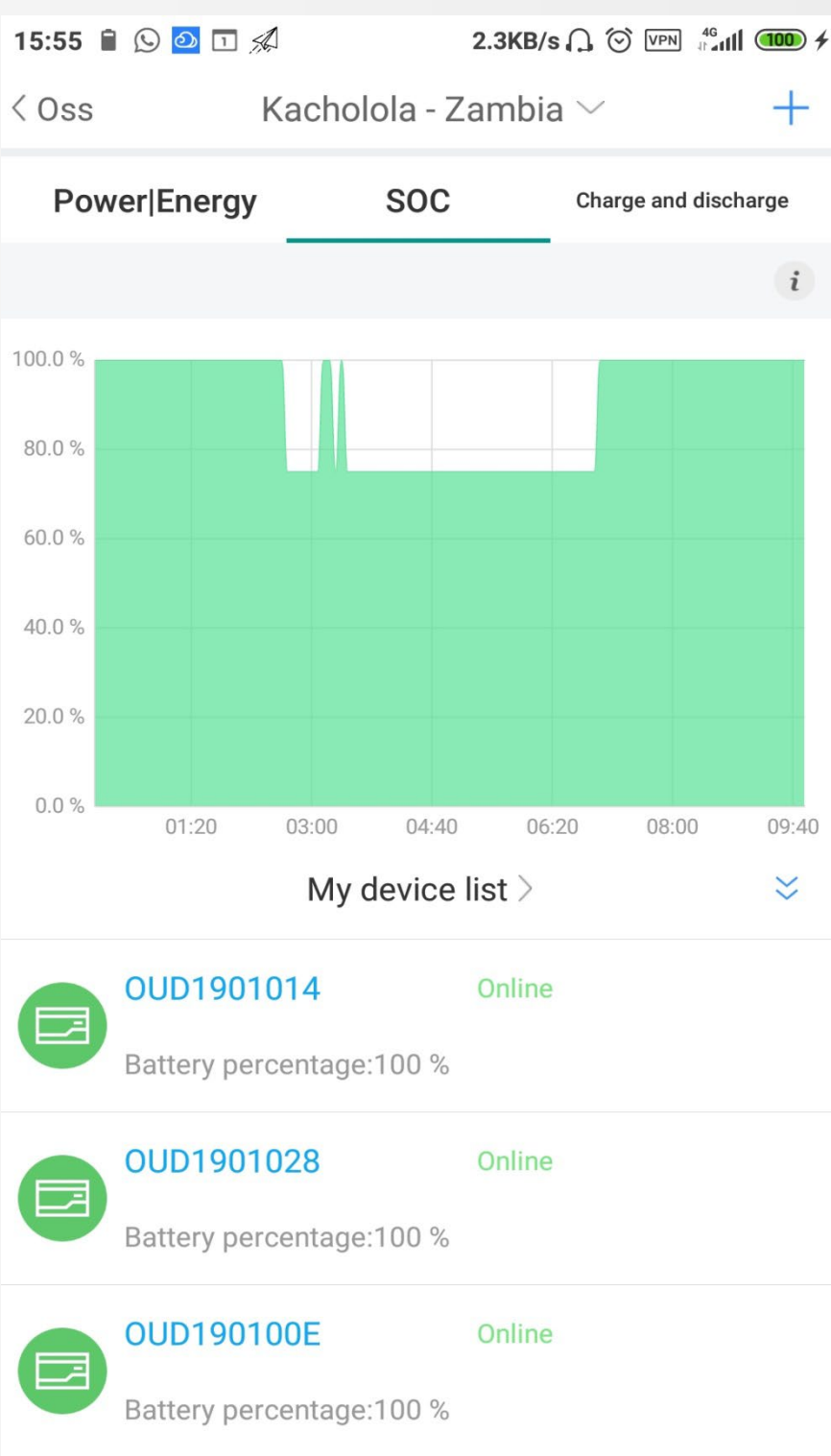
System State



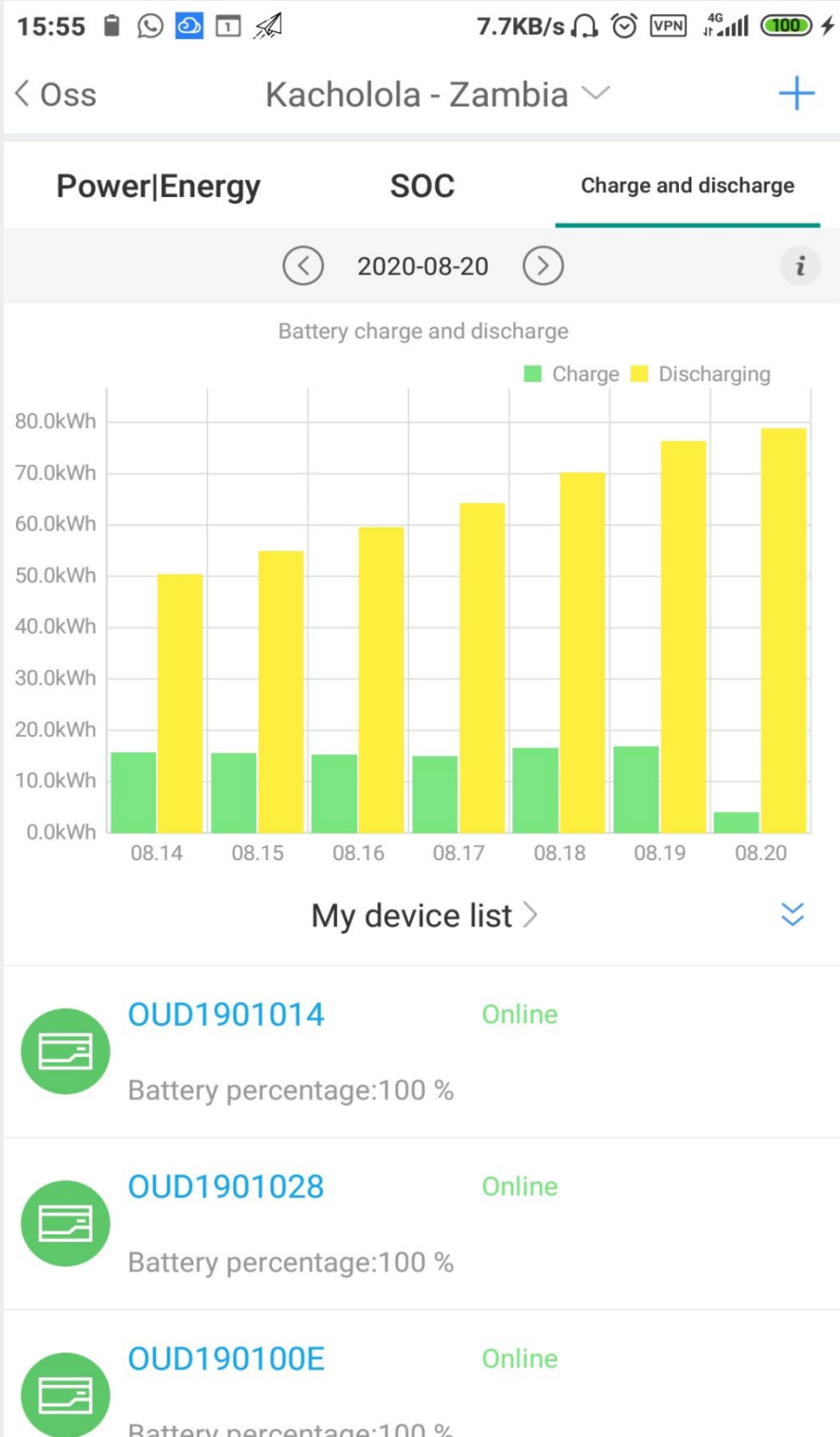
Power Flow



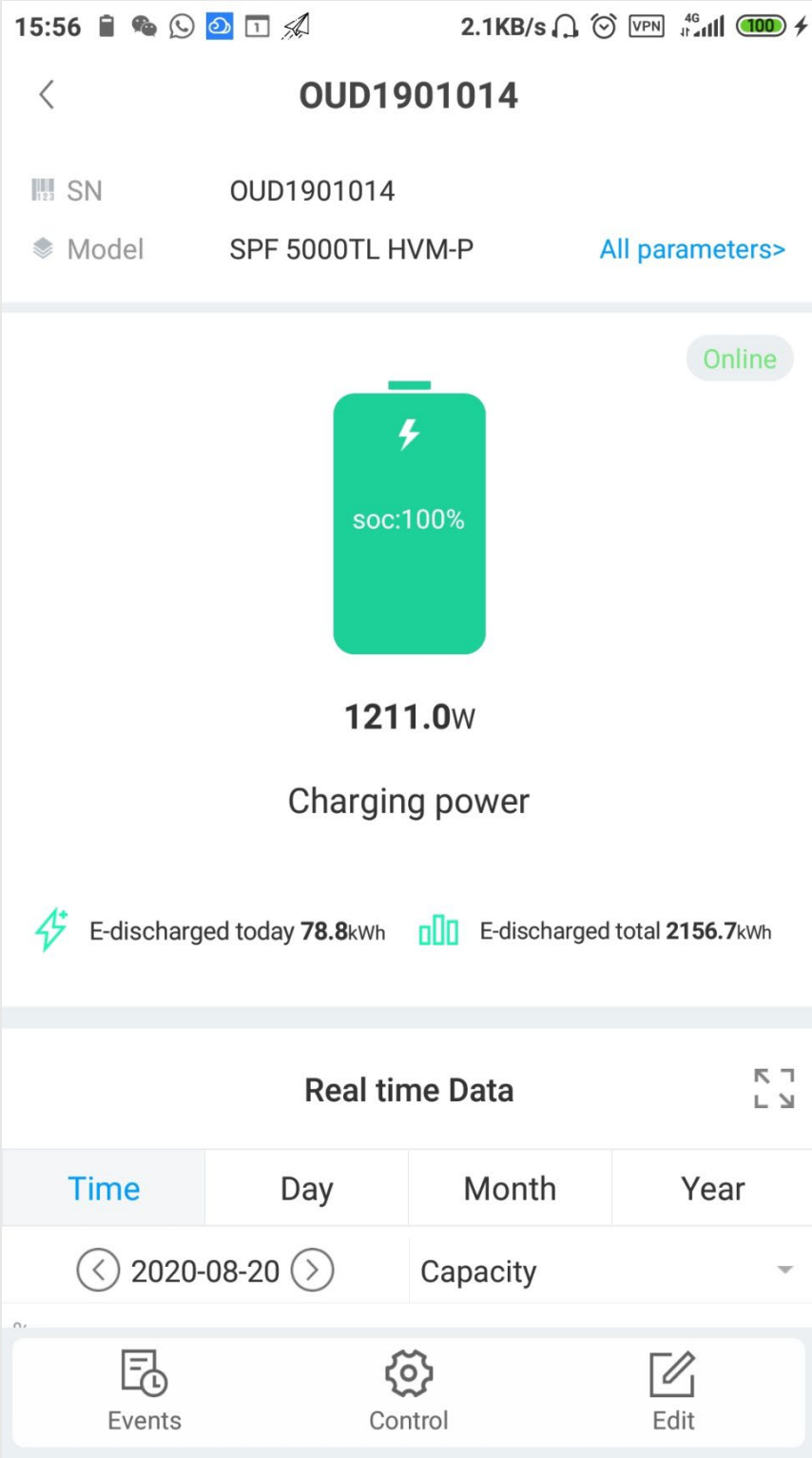
Battery State



Energy Statistics

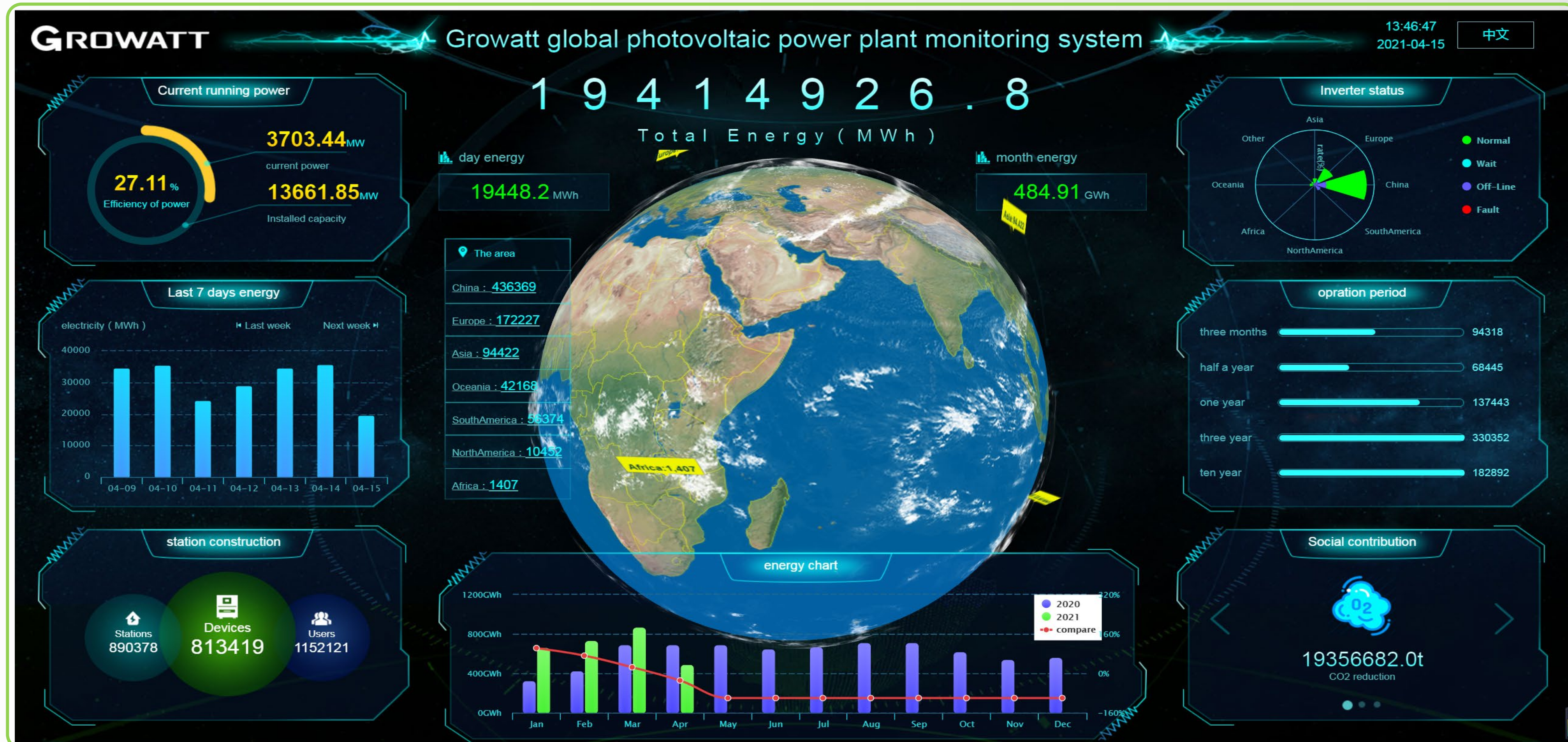


Parameter Setting



Smart Management

Online Smart Service (OSS) System



Online failure reporting

Remote parameter setting

Remote firmware upgrading

No need site travelling

Reduce maintenance cost

THANKS



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