

Million Stones

Solar-DG-G Power Solution

Technology Changes The Future

Green

Hybrid

Smart



CHALLENGE



Power Shortage

Unstable Electricity

1 Billion People



OFF/POOR GRID

NO POWER

600 Million People



Pollution

Carbon Emission

ZERO Emission



Complex Scenarios

Uptown/Roadside/Mountain

Rural Area



Advantage



Green

- . Solar energy freely accessed
- . 0 Carbon, environment friendly
- . End-to-End energy saving
- . No noise

OPEX- saving

- . Simple O&M
- . Smooth expansion, remote upgrading
- . Electricity saving
- . Less footprint for rental cost saving

Full - Scenario

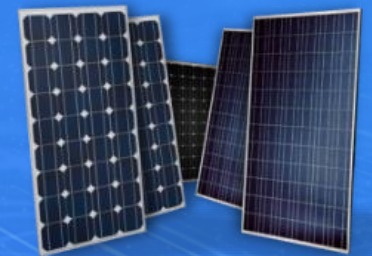
- . Power G
- . Power B-DG
- . Power S/S – G
- . Power S/S - DG
- . Power S/S – DG -G

- . Harsh conditions application
- . High quality, long service life

Reliable

- . Available everywhere
- . Fast deployment
- . Lower maintenance

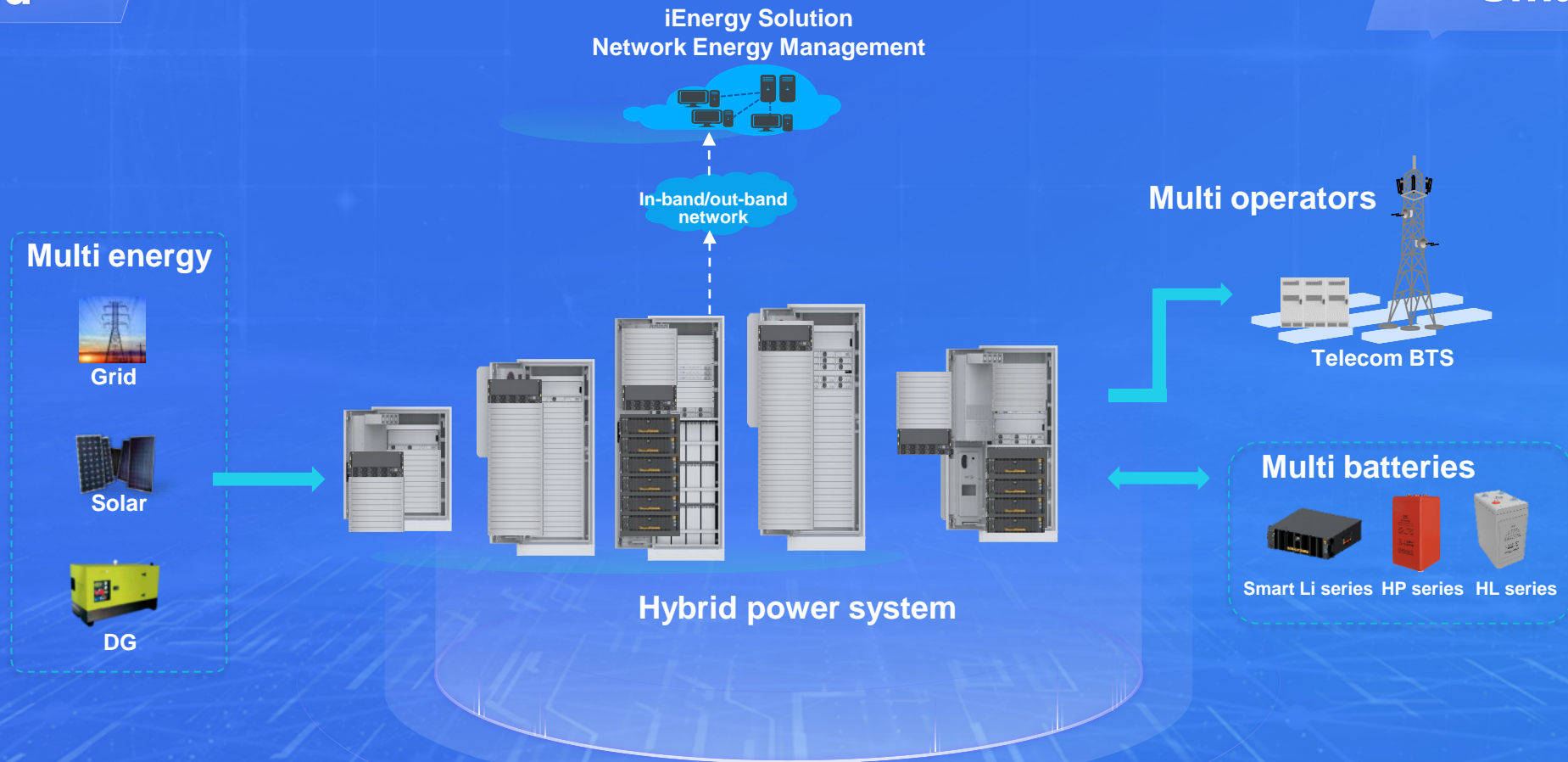
Hybrid Power System



Solution Overview

Hybrid

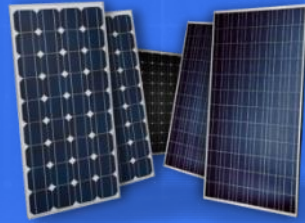
Smart



. customized to satisfy with different Scenarios



All IN ONE



PV Model
STC > 20.2%



42kW/6U



100Ah/150Ah Lithium
150Ah(2021Q4)



2/3/4G
42kW, 600Ah/900Ah

Higher Power Capacity



27kW/5U



42kW/6U



98%
Rectifier



96.7%
Rectifier



98.5%
Solar PU

Higher Cooling Capacity



HE: max. 3500W
DC fan: max. 2500W
DC air-con: 2850W

Lithium Battery

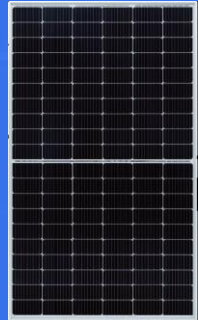


100Ah/150Ah Lithium

. All in one for 2G/3G/4G power supply

Advanced PV

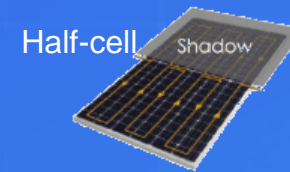
Large Capacity, Footprint Saving



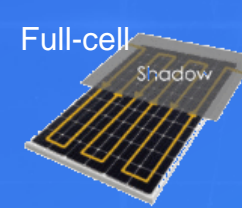
Half-cell
solar module
375Wp

Material	Mono-crystalline
Capacity	375Wp
Efficiency (STC)	20.2%
Dimension (mm, L*W*H)	1768*1048*35 / 1756*1039*30

Half-cell Technology, Less Shading Loss

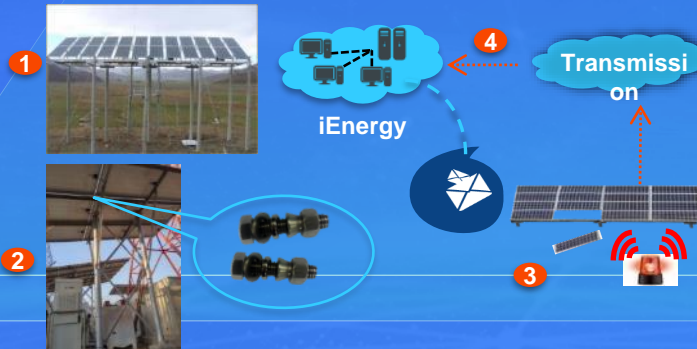


-50% power output



0 power output

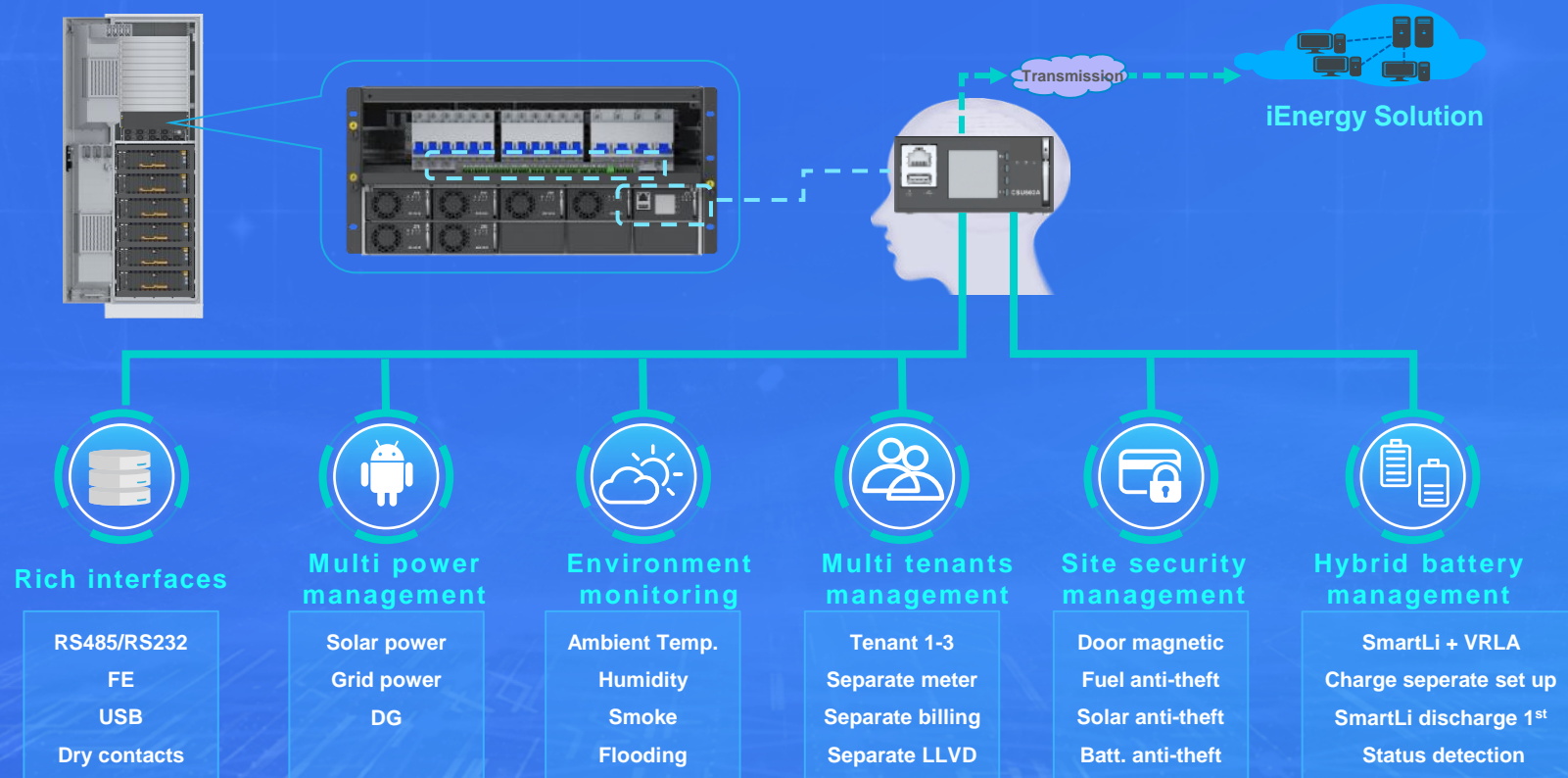
Mechanical + Electronic Anti-theft for Solar Module



1. 3m high-installed PV array
2. Destructive anti-theft bolts for solar panel installation
3. Solar module stolen alarm trigger dry contact alarm
4. iEnergy system sends e-mail or SMS once stolen alarm generated

. Advanced PV Module to Improve Solar Utilization

Unified CSU



. Unified CUS, super brain for entire system



Batteries



Unified CSU,
with different battery control strategies,
for various complicated scenarios



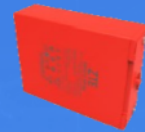
19" FB battery

- High temp. + deep cycle + fast charge
- Charge current: 1C max.
- 3500cycles @35 °C 80%DOD



2V HP E/HP battery

- High temp. + deep cycle
- HP E: 1600cycles @45 °C 60%DOD
- HP: 2000cycles @45 °C 60%DOD



12V HP A battery

- High temp. + fast charge
- Charge current: 0.32C max.
- 900cycles @45 °C 60%DOD



2V HL E battery

- Fast charge + cost-effective
- Charge current: 0.32C max.
- 1000cycles @25 °C 60%DOD



2V HL battery

- Deep cycle (GEL)
- Charge current: 0.2C max.
- 3000cycles @25 °C 60%DOD



Mini. HL battery

- Fast charge
- Charge current: 0.32C max.
- 1500cycles @25 °C 60%DOD

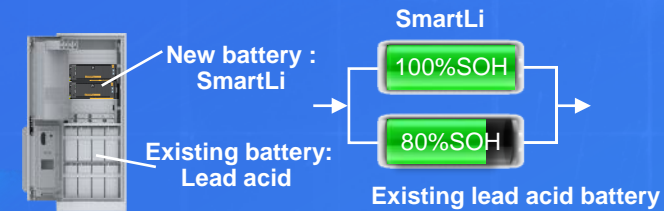


Recommend Battery



100Ah/150Ah

Hybrid Use Enables Smooth Expansion

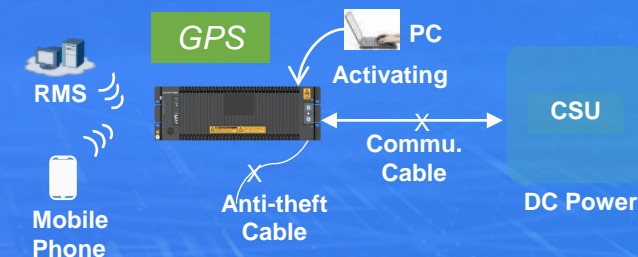


Connect with existing lead acid battery directly in parallel, save investment

Constant 57V for Long Distance Power Supply



Anti-theft by Software Lock



. Smart Li: Hybrid Use, Voltage Boosting, Anti-theft

Smart Li Parameters



DC48 FB100B3

Introduction

DC48 FB100B3 is the new generation of SmartLi battery, which adopts advanced lithium technology for telecom site. It is compact design with enhanced anti-theft function. New technology enables step-by-step investment for future network evolution.

Product Features

- 3U height with excellent cycle life
- Large charge & discharge current: max. 100A
- iLock technology[®] and buzzer alarm for anti-theft
- GPS function (optional)
- Constant voltage output for long distance load
- Mixed-use with lead-acid battery or different type of lithium-ion battery directly

Technical Parameters

Item	Parameters
Rated capacity	100Ah(C ₂₀ ,25°C)
Nominal voltage	48V
Cathode material	LiFePO ₄
Charge voltage	54.5Vdc(recommended value)
Charge/discharge current	0A~100A
Discharge voltage	40Vdc~56Vdc
Operating temperature	charging: 0°C~55°C, discharging: -20°C~+55°C
Storage temperature	0°C~+40°C
Dimensions(W*D*H mm)	442x410x130.5(excluding mounting ear, handle, terminal)
Net weight	Approx. 45kg
Self discharge	≤3%/per month@25°C
Methods for detecting battery theft	gyroscope, anti-theft cable, communication
Altitude	0m~4000m

Many Thanks

Looking forward to the corporation

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