I-BAN International Corp.

Telecom Power and Battery Solutions

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IBAN Telecom Power System

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	Outdoor DC power supply				Rectifier module		Solar module	Hybrid Power System	
Output Power	1500W	2000W	3000W	6000W	3000W	4000W	4000W	12KW (2U, 3 slots)	32KW (6U, 8 slots)
Appearance									
Dimension (W*H*D) (mm)	320*200*90	378*267*74		440*350*104	287*105*40		287*105*40	482*420*89	482*400*267

Outdoor DC Power Supply

I-BAN International

• Features

1、Conversion Efficiency >96%

2、IP65 Waterproof Rating

3、No Load Drop at 55℃

4、Network Management and Monitoring: RS485/Dry Contact

	OPS 1500	OPS 2000	OPS 3000
Outdoor Power	1500W	2000W	3000W
Input Voltage		80~300Vac	
Half load input		110Vac	
Rated Voltage		53.5±0.5Vdc	
Output Current	30A	40A	60A
Efficiency		>96%	
Lightning Prevention		8/20μs, In 20kA	
Waterproof Level		IP65	
Cooling method		Natural heat dissipation	
Working Temperature		-40~55℃	
Decibel		<65 dB	
Dimension	320 * 200 * 92 mm	378 * 267 * 74 mm	378 * 267 * 74 mm
Weight	6kg	9kg	9kg

Power Rectifier Module

• Features

1、Conversion Efficiency >96%

2、Dual Fan Module Design

3、No Load Drop at 55℃

4、Noise level less than 65dB

Output power	3000W	4000W
Input voltage	80~300Vac	
Half load input	110Vac	
Rated voltage	53.5±0.5Vdc	
Input frequency	47 ~ 63Hz	
Efficiency	≥96%	
Output current	60A	80A
Cooling method	double-fan for heat-dissipation	
Working temperature	-40 ~ 55℃	
Decibel	<65 dB	

Power Solar Module

I-BAN International

• Features

1、Conversion Efficiency >97%

2、RoHS compliant

3、High temperature protection, Over load protection

4、Support parallel operation through CAN protocol

Output power	4000W
Input voltage range	70~150Vdc
Output voltage range	42~58Vdc
Rated voltage	53.5±0.5Vdc
Max output current	80A
Efficiency	≥97%
Working temperature	-40 ~ 75℃
Storage temperature	-40 ~ 85℃

Hybrid Power System

I-BAN International

• Features

1、Ultra-wide temperature range -40~+65℃

2、High Efficiency > 96%

3、Rectifier module support sleep, mixed insertion

4、Intelligent control of fan speed

5、Support mixed insertion (50A and 75A), plug and play

	EPS 48100	EPS 48200	EPS 48400
Input Voltage		80~300Vac	
Output Voltage		53.5Vdc (42~58V)	
Output Current	240A (MAX)	320A (MAX)	640A (MAX)
Overvoltage Protection		59Vdc	
Limited Current		55A	
System Slot	3pcs (full accessories)	4pcs (full accessories)	8pcs (full accessories)
Installation Methods		19'' rack installation	
Telecom Interface		RJ45 (485/Ethernet)	
Rectifier Module		60A ; 80A	
Working Temperature		-40~65℃	
Decibel		<65 dB	
Dimension	445 * 89 * 400mm	482 * 380 * 222 mm	482 * 380 * 267 mm
Weight	14kg	20kg	22kg

IBAN Telecom Lithium Iron Battery

I-BAN International

	Rack-mounted battery			Intelligent rack-mounted battery		Outdoor wall-mounted battery
Capacity	50Ah	100Ah	200Ah	100Ah	150Ah	50Ah
Appearance						
Dimension (W*H*D) (mm)	442*131*320	442*130*399	482*280*500	442*130*399	442*131*530	400*450*174
Cycle Life	3500 Cycles@25℃ 0.5C 80%DOD					

Rack-mounted battery

I-BAN International

• Features

1、Larger power density

2、Integrated BMS to protect the battery

3、Support parallel connection of up to 16 sets

4、Compatible with 16S (optional)

	EBS 4850	EBS 48100	EBS 48200
Nominal Voltage		48V	
Nominal Capacity	50Ah@0.5C	100Ah@0.5C	200Ah@0.5C
Max. Charging Current	50A	100A	100A
Max. Discharging Current	50A	100A	200A
End Charging Voltage		55V	
End Discharging Voltage		40.5V	
Operating Temperature		0℃ ~ 55℃ (Charge) -20℃ ~ 60℃ (Discharge)	
Storage Temperature		-20~45℃ (in 1 month) 15~35℃ (in 6 months)	
Design Life		≧10 year	
Communication		RS232, RS485	
Cycle Life		3,500 cycles	
Dimension (W*D*H)	442mm*320mm*130mm	442mm*399mm*130mm	482mm*500mm*280mm
Weight	23kg	39kg	86kg

Intelligent rack-mounted battery

I-BAN International

• Features

1、Supports mixed use of old and new batteries, mixed with lead-acid batteries, and batteries of different capacities

2、DC remote supply intelligent booster reduces, reduces line loss

3、Multiple groups of parallel active current sharing

	EBS 48100A1	EBS 48150A1
Nominal Voltage	48V	
Nominal Capacity	100Ah@0.5C	150Ah@0.5C
Max. Charging Current	100A	
Max. Discharging Current	100A	
End Charging Voltage	55V	
End Discharging Voltage	40.5V	
Operating Temperature	0°C ~ 55°C (Charge) -20°C ~ 60°C (Discharge)	
Storage Temperature	-20~45℃ (in 1 month) 15~35℃ (in 6 months)	
Design Life	≥10 year	
Communication	RS232, RS485	
Cycle Life	3,500 cycles	
Dimension (W*D*H)	442mm*399mm*130mm	442mm*530mm*130mm
Weight	41kg	58kg

Rack-mounted battery

I-BAN International

• Features

1、Heating film function(Optional)

2、IP65 for outdoor design

3、Support parallel connection of up to 16 sets

4、RS485 communication output for monitoring

Item	Specification
Nominal Voltage	48V
Nominal Capacity	50Ah@0.5C
Max. Charging Current	50A (1C)
Max. Discharging Current	50A (1C)
End Charging Voltage	55V
End Discharging Voltage	40.5V
Operating Environment Temperature	-40℃ ~ 55℃
Storage Temperature	-20~45℃ (in 1 month) 15~35℃ (in 6 months)
Design Life	≥10 year
Communication	RS232, RS485
Protection Degree	IP65
Cycle Life	3,500 cycles
Dimension (W*D*H)	400mm*450mm*174mm (excluding mounting ears)
Weight	30kg

Hybrid Power System Solution

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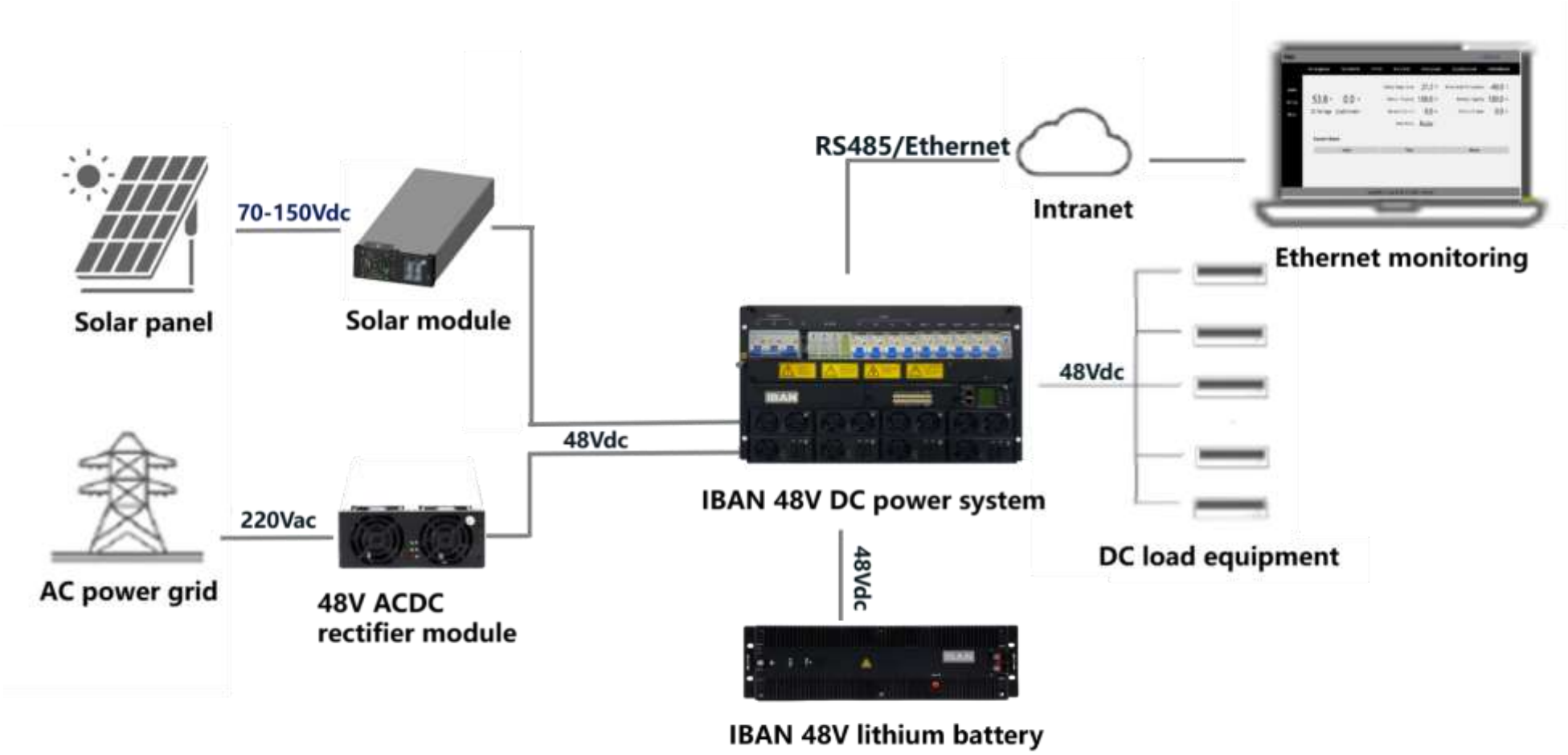
Solution architecture



Hybrid Power System Solution

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Product function

IBAN 48V DC power system

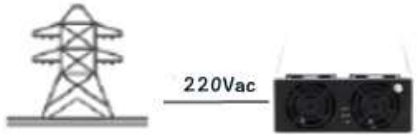
- Hybrid power supply system
- System capacity customization
- Hot-swappable design
- Improve battery management function
- Improve protection and alarm functions
- 485/Ethernet/Dry contact

DSD4000

- Solar DC Conversion Module
- Voltage Range: 70～150Vdc
- Rated Output Voltage: 53.5Vdc
- Total Output Power: 4000W
- Conversion Efficiency: ≥97%
- MPPT

EPS4000

- AC to DC rectifier module
- Voltage Range: 80～300Vac
- Rated Output Voltage: 53.5Vdc
- Total Output Power: 4000W
- Conversion Efficiency: ≥96%
- Noise level less than 65dB
- compliant with ROHS requirements



Hybrid Power System Solution

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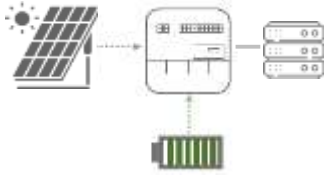
Application

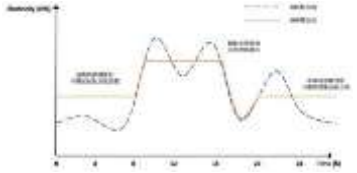
Solar power supply

During the day, the system utilizes solar energy to power the load, while at night, it relies on battery power to enhance system efficiency



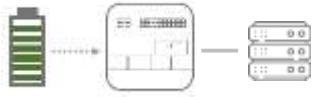
Peak cut

The system charges the batteries from the grid during off-peak hours, and when there is no solar energy available during peak grid demand times, the batteries power to the load



Backup power

When the grid is interrupted, the system uses the batteries to provide power to the load, serving as a backup power source



Hybrid Power System Solution

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Efficiency

Energy-saving efficiency

Reducing energy losses from the traditional solar inverters repeated conversions to enhance energy efficiency

Equipment efficiency

Integrated into a single device, it reduces equipment expenses, installation and maintenance costs, minimizes wire wastage, maximizes space utilization, and lowers the risk of failures

Network integration

Conserving network management IP resources, with a single interface for communication and protocols, facilitating integration and maintenance of energy management systems

Hybrid Power System Solution

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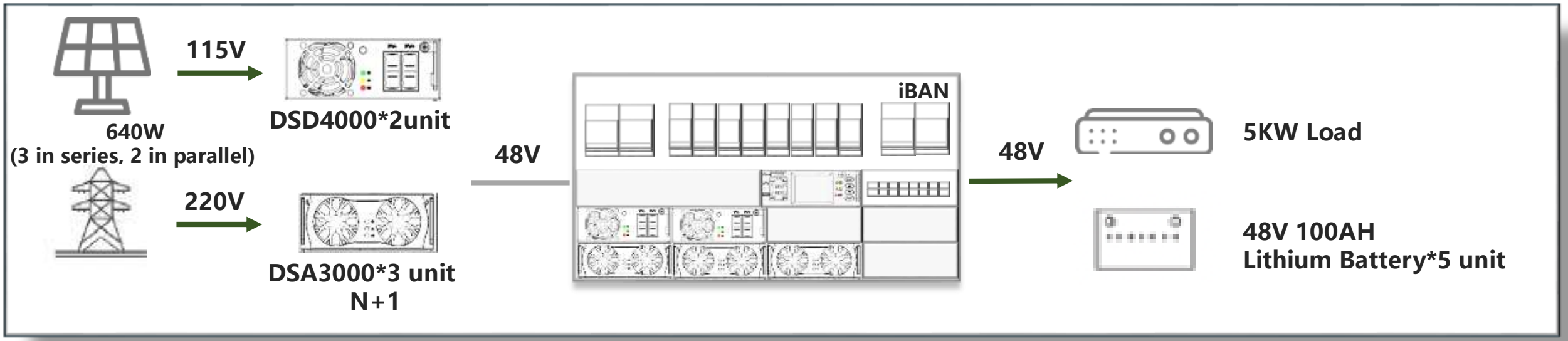
Efficiency



Average sunlight for 3 hours per day

24 kilowatt-hours / 4.3USD

Per month

720 kilowatt-hours / 129USD

Per year

720 kilowatt-hours / 1,548USD

10 year

7200 kilowatt-hours / 15,480USD

Hybrid Power System Solution

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Application

Telecom Outdoor Solution

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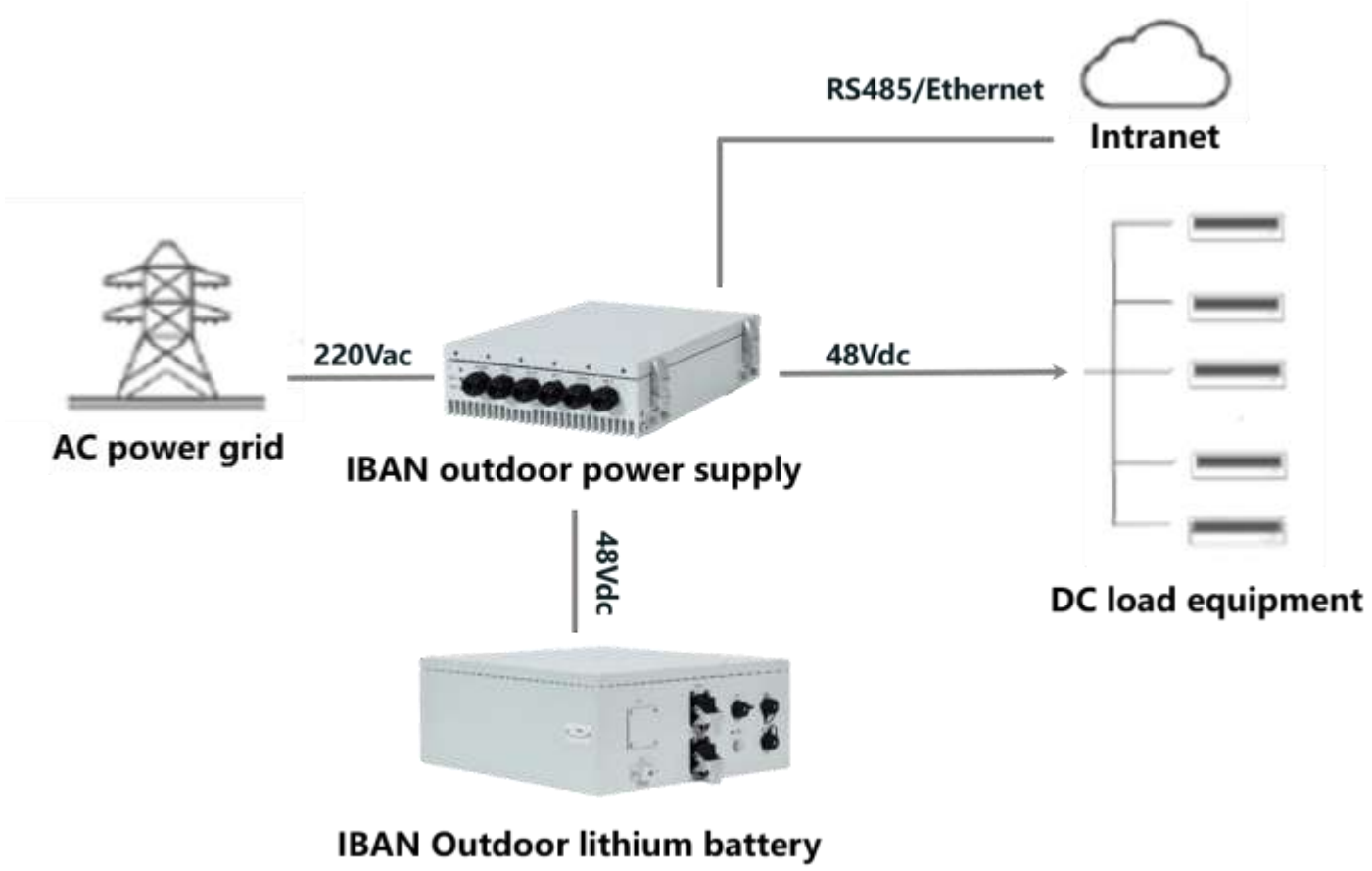
Solution architecture

Telecom back-up power

- Base Station
- Micro stations
- Small cell applications



Telecom Outdoor Solution

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Product function

IBAN 48V outdoor power supply

- IP65 for outdoor design
- Wall-mounted or pole-mounted installation
- Voltage Range: 80～300Vac
- Rated Output Voltage: 53.5Vdc
- Conversion Efficiency: ≥95%
- Rated output power: 1.5kw, 2kw, 3kw, 6kw
- 485/Ethernet/Dry contact

IBAN outdoor lithium battery

- IP65 for outdoor design
- Wall-mounted or pole-mounted installation
- Nominal Voltage: 48Vdc
- Nominal Capacity: 50AH
- Max Continuous Charge Current: 50A(1C)
- Max Continuous Discharge Current: 50A(1C)

Telecom Outdoor Solution

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Efficiency

Easy installation

Wall or pole mounted installation enables quick setup. IP65-rated protection ensures installation without any limitations from environmental or regional factors

Addressing Space Constraints

Telecom infrastructure demands more space, and some existing cabinets have limited interior space. By adopting an outdoor power solution, you can effectively resolve space constraints

Cost reduction

Saving space and enabling quick installation can significantly reduce construction, labor, time, and tower rental costs, leading to substantial cost savings

Telecom Outdoor Solution

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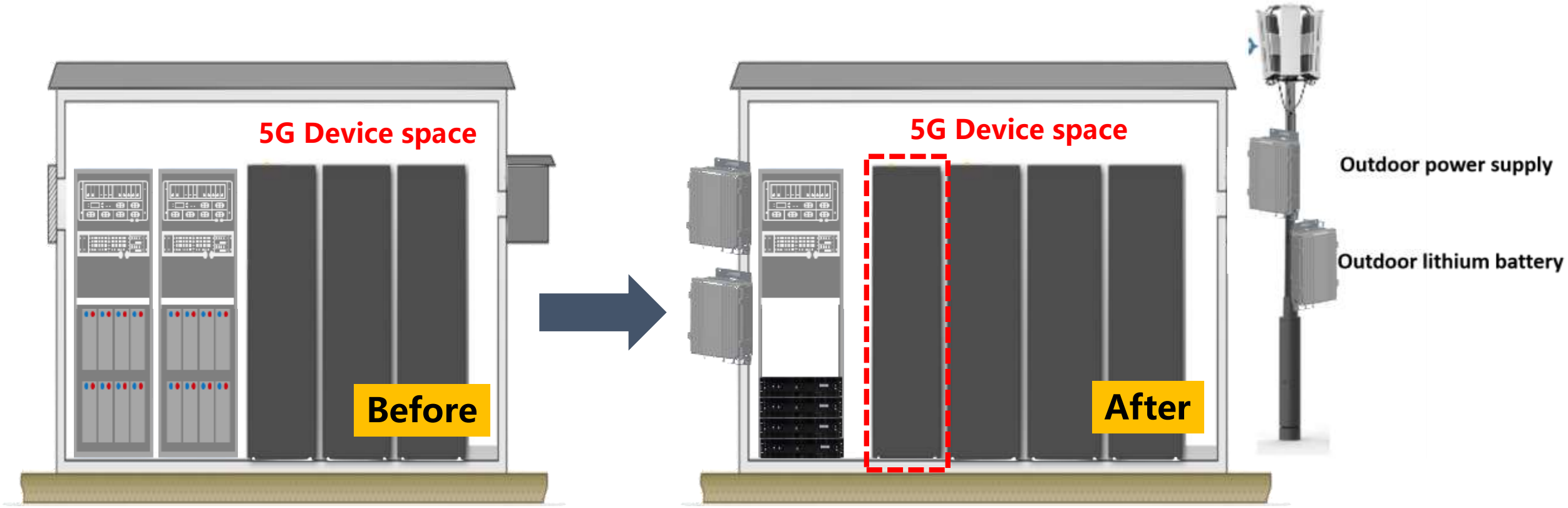
Application



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Application

IBAN Packing and shipping

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IBAN Partners

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台灣大哥大 Taiwan Mobile

亞太電信 Gt

Growatt

工業技術研究院 Industrial Technology Research Institute

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Join hands to build a sustainable
and bright future together