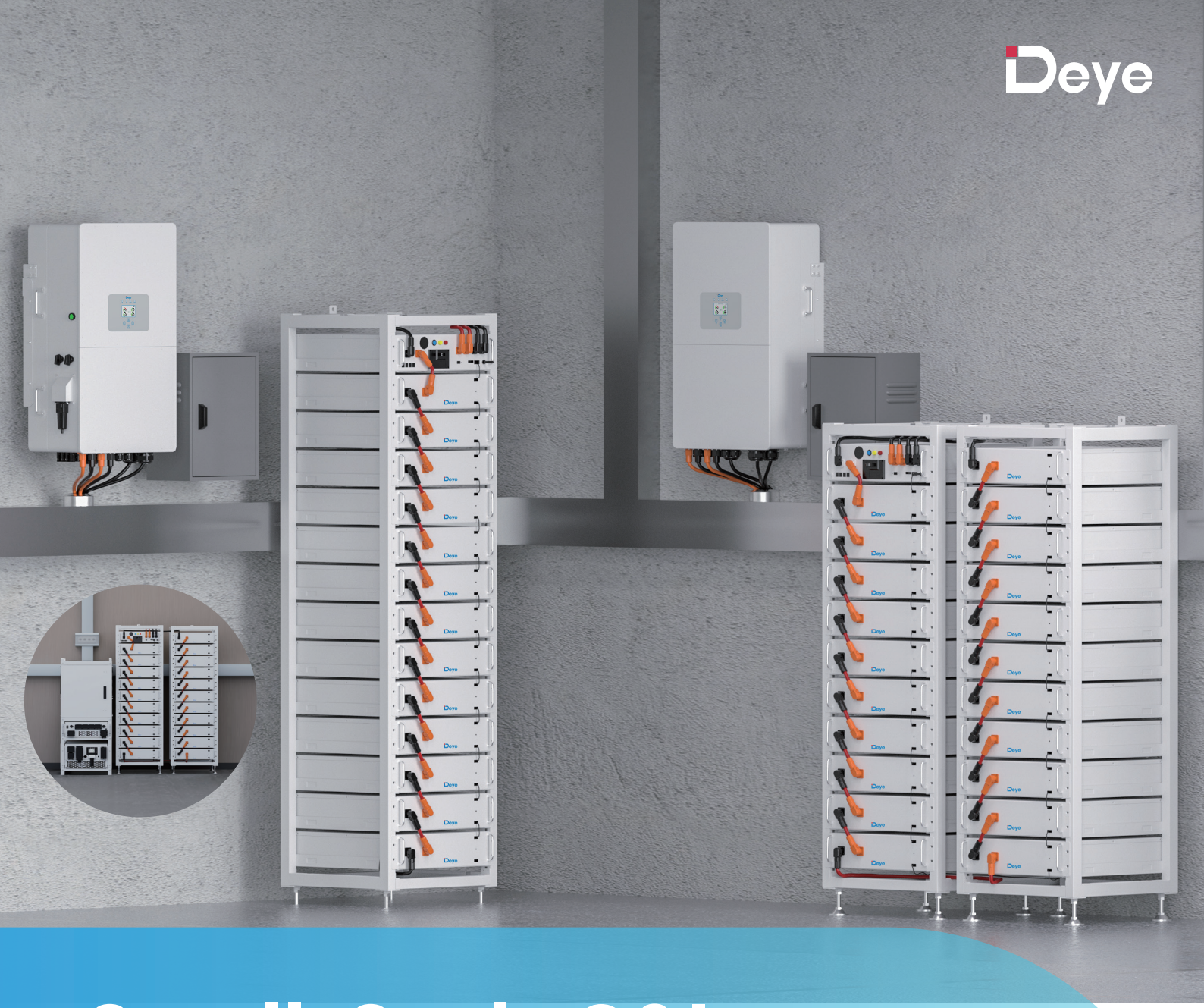


Small-Scale C&I Energy Storage Solution

BOS-A

BOS-A

Intelligent Control
Over-discharge/charge/current and temp protection

Superior Output
Support up to 160A current output

Flexible Expansion
Support 7~21 packs in series
Inverter 50~100kW, Battery 54~161kWh

10-Year Warranty
Safest LFP battery&Intelligent BMS

3U Rack Design
Connectable to two inverter DC interfaces

Battery Protection
Auto-managed charge/discharge&Cell voltage balancing

Small-Scale C&I Energy Storage Solution

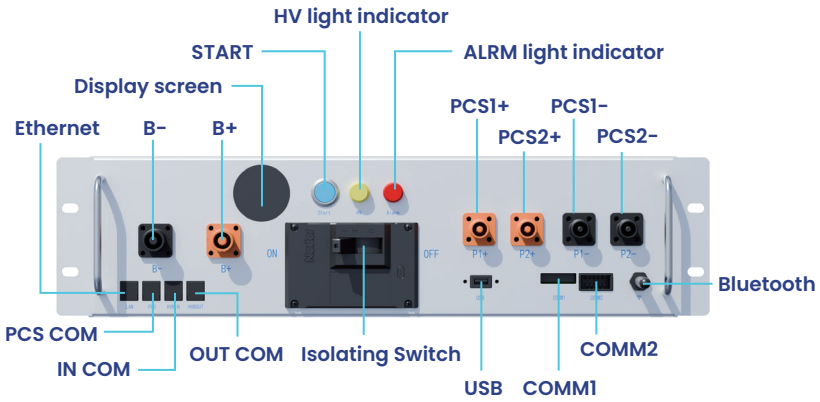


Model		BOS-A		
Main Parameters				
Cell Chemistry		$LiFePO_4$		
Module Energy (kWh)		7.68		
Module Nominal Voltage (V)		38.4		
Module Capacity (Ah)		200		
Module Dimension (W × D × H, mm)		601.5 × 520 × 135		
Module Weight Approximate (kg)		70		
Battery Module Qty In Series (Optional)		7	13	21
System Nominal Voltage (V)		268.8	499.2	806.4
System Operating Voltage (V)		235.2 ~ 306.6	436.8 ~ 569.4	705.6 ~ 919.8
System Energy (kWh)		53.76	99.84	161.28
System Usable Energy (kWh) [1]		48.38	89.85	145.15
Charge / Discharge[2] Current (A)	Recommend	100		
	Max	160		
Working Temperature (°C)		Charge : 0 ~ 55 / Discharge : -20 ~ 55		
Status Indicator		Yellow : Battery High Voltage Power On Red : Battery System Alarm		
Communication Port		CAN2.0		
Humidity		5% ~ 85%RH		
Altitude		≤3000m		
IP Rating of Enclosure		IP20		
Dimension (W × D × H, mm)		610 × 610 × 1900	610 × 610 × 2350	(610 × 610 × 1900) × 2
Weight Approximate (kg)		525	934	1501
Installation Location		Rack-Mounted		
Storage Temperature (°C)		0 ~ 35		
Recommend Depth of Discharge		90%		
Cycle Life		≥6000 (25±2°C, 0.5C / 0.5C, EOL70%)		
Warranty[3]		10 years		
Certification		CE / IEC 62619 / IEC 62040 / UN38.3 / VDE-2510		

1. DC Usable Energy, test conditions : 90%DOD, 0.3C charge & discharge at 25°C. System usable energy may vary due to system configuration parameters.
2. The current is affected by temperature and SOC.
3. The warranty is due whichever reached first of warranty period or life cycle power.

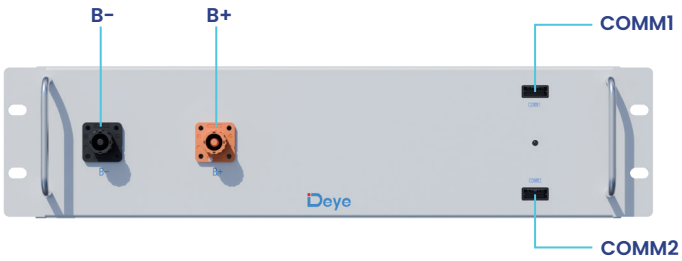
Small-Scale C&I Energy Storage Solution

Model	BOS-A-PDU-2
Operating Voltage	200~1000Vdc
Max.Charge/Discharge Current	160A
Operating Temperature	-20~65°C
Ingress Protection	IP20
DC Input Rating	12±2%V/4.15A
Details	572×632×142.2(W×D×H),21kg



◎ Ethernet:Features not yet developed.
◎ PCS COM:PCS COM battery communication terminal: used to output battery information to the inverter.
◎ IN COM:Connection position with previous BOS-A-PDU-4 communication input.
◎ OUT COM:Connection position with next BOS-A-PDU-4 communication output.
◎ Isolating Switch:It is used to manually control the connection between the battery rack and external devices.
◎ USB:BMS upgrade port and storage expansion port.
◎ COMM1:Connection position of external 12VDC power supply.
◎ COMM2:Used for communication and providing power.
◎ Bluetooth:The mobile APP connects to the data acquisition rod of the energy storage system.
◎ B+:Battery common positive connection position (red).
◎ B-:Battery common negative connection position (black).
◎ Display screen:Display SOC and fault codes.
◎ START:A start switch of 12VDC power inside the high-voltage control box.
◎ HV light indicator:High-voltage hazard indicator (yellow).
◎ ALRM light indicator:Battery system fault alarm indicator (red).
◎ PCS1+:First PCS positive connection position (orange).
◎ PCS2+:Second PCS positive terminal connection position (orange).
◎ PCS1-:First PCS negative connection position (black).
◎ PCS2-:Second PCS negative connection position (black).

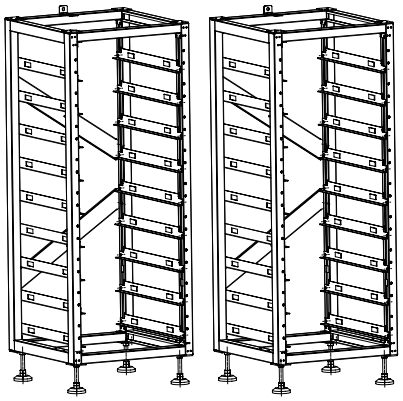
Model	BOS-A-Pack7.68		
Nominal Capacity	200Ah	Ingress Protection	IP20
Nominal Energy	7.68kWh	Operating Temperature(Charge)	0~55°C
Nominal Voltage	38.4Vdc	Operating Temperature(Discharge)	-20~55°C
Nominal Charge/Discharge Current	160A	Storage Temperature	0~35°C
Details	576×632×135.2(W×D×H),66kg		



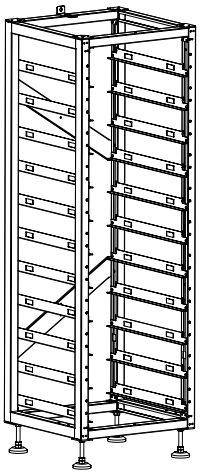
◎ B-:Battery module negative pole (black).
◎ B+:Battery module positive pole (orange).
◎ COMM1:Used for communication and providing power.
◎ COMM2:Used for communication and providing power.

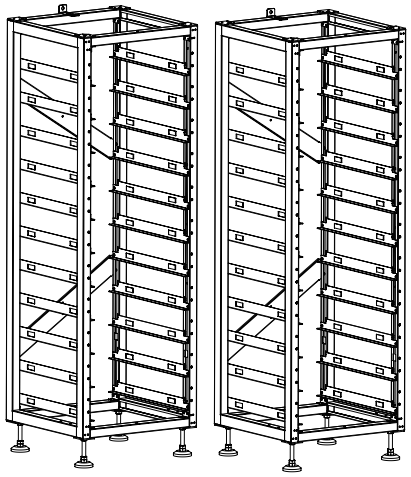
Small-Scale C&I Energy Storage Solution

Model	BOS-A
BOS-A-Rack9 *2	Can install 16 pcs batteries and 1 pcs High Voltage Battery cluster control box.
Dimension (W × D × H) Weight Approximate	1220 × 610 × 1600mm 84kg

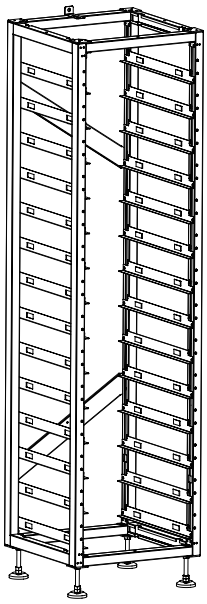


BOS-A-Rack11 **BOS-A-Rack11 *2**	Can install 10 pcs batteries and 1 pcs High Voltage Battery cluster control box. Can install 21 pcs batteries and 1 pcs High Voltage Battery cluster control box.
Dimension (W × D × H) Weight Approximate	610 × 610 × 1900mm 47kg 1220 × 610 × 1900mm 94kg



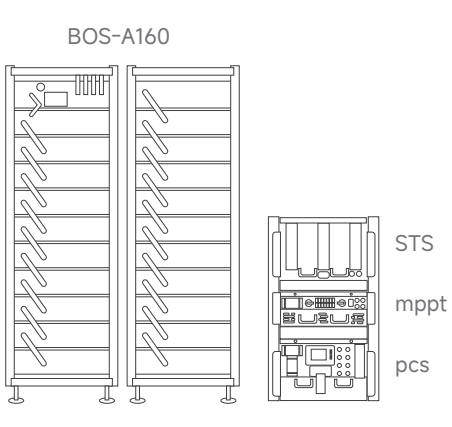


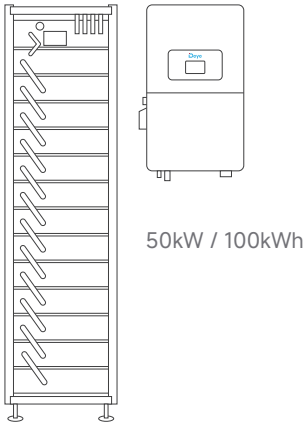
BOS-A-Rack14	Can install 13 pcs batteries and 1 pcs High Voltage Battery cluster control box.
Dimension (W × D × H) Weight Approximate	610 × 610 × 2350mm 55kg

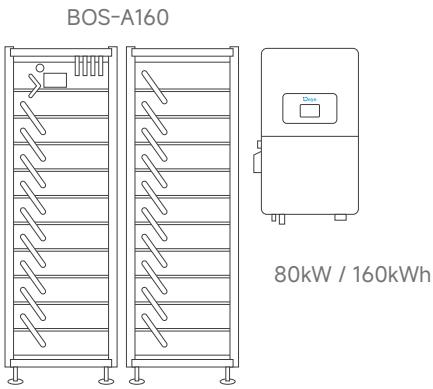


Small-Scale C&I Energy Storage Solution

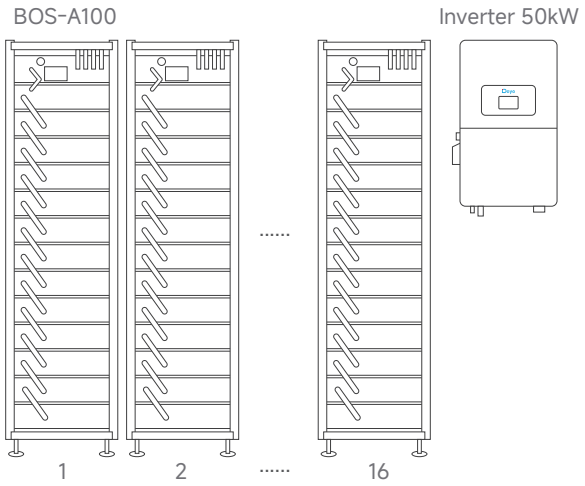
Backup Power Duration Plan	1 hours	2 hours		4 hours	
Hybrid inverter power	100kW	50kW	80kW	50kW	80kW
Battery model	BOS-A160	BOS-A100	BOS-A160	BOS-A100	BOS-A160
Number of batteries	1 pc	1 pc	1 pc	2 pcs	2 pcs



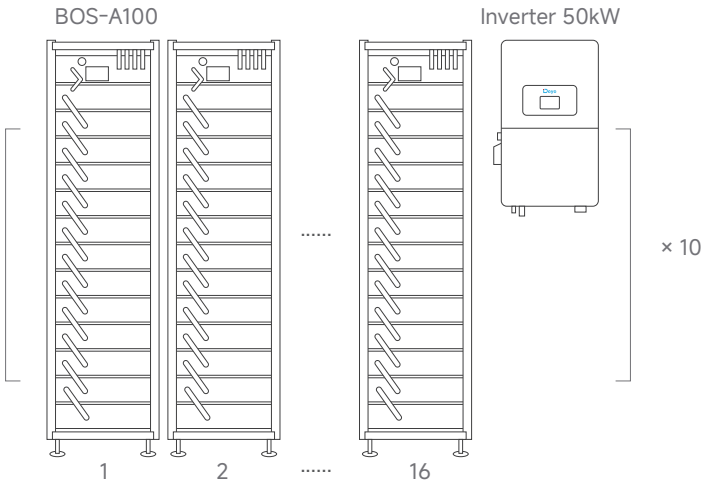




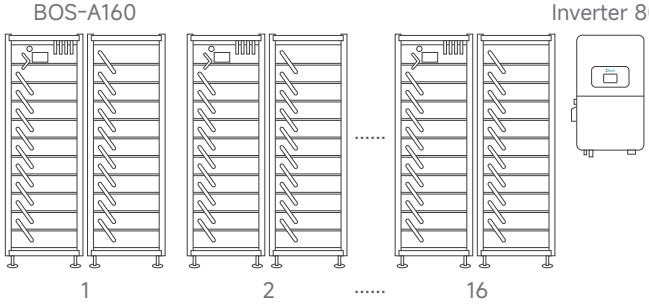
Typical Application Scenarios



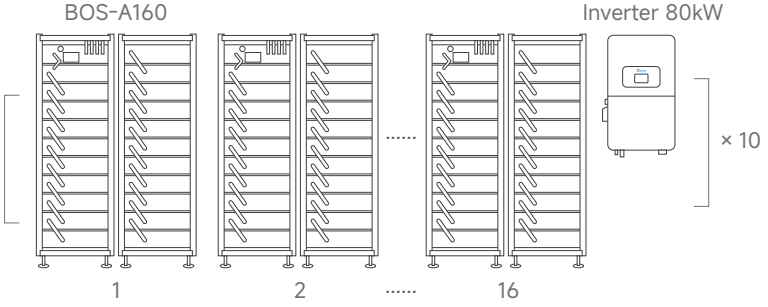
Maximum support for 16 racks of batteries in parallel



Maximum support for 10 inverters in AC parallel operation



Maximum support for 16 clusters of batteries in parallel

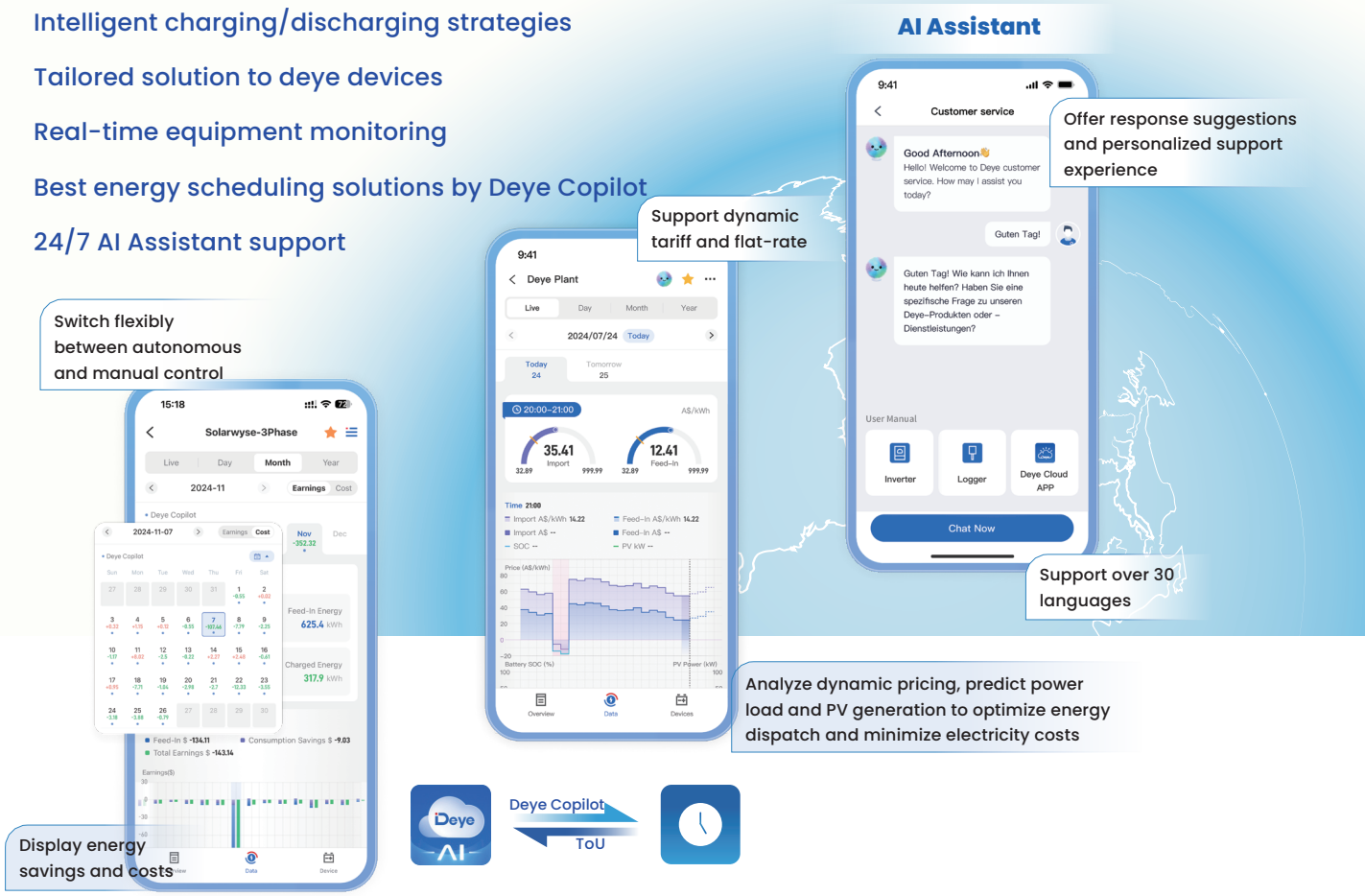


Maximum support for 10 inverters in AC parallel operation

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- Intelligent charging/discharging strategies
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- Real-time equipment monitoring
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