UTILITY-SCALE ESS SOLUTION

DEYE WINTER WS SERIES

Ultimate Safety
- 3+3 Fire Protection System
- 3+3 Electrical Safety Safeguards
- AC Leakage & DC Insulation detection
- High-Voltage Interlock

Versatile Applications
- Peak Shaving & Energy Arbitrage
- Virtual Power Plant (VPP) Ready
- Off-Grid & Microgrid Capable
- PV and BESS DC Coupling
- Hybrid Solar-BESS-Diesel Systems

High Energy Density
- 4300kWh in 20' BESS container
- 2250kW PCS, 2880kW PV in 10' container

Seamless Scalability
- Modular Architecture
- Flexible 2/4/6h Energy Storage Solutions
- Compact Design

Smart Cloud Management
- AI-Powered Load Optimization
- 24/7 Remote Monitoring & O&M
- Real-Time Battery Health & Safety Alerts
- Cloud-Connected Ecosystem

Cluster Management
- One cluster management, high availability, more friendly to the cell

IP55
Protection Rating

2880kW
PV DC Coupling

6 Levels
Fire Protection

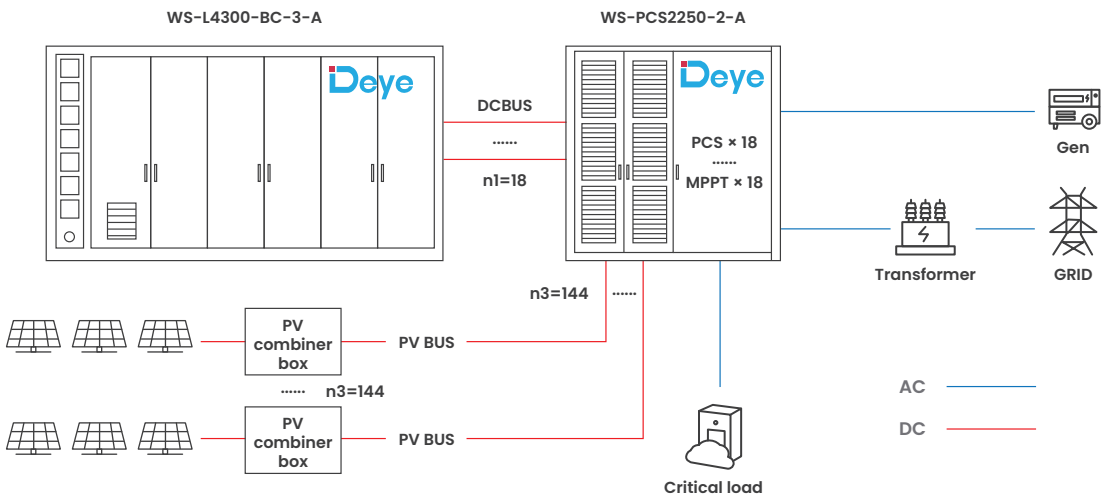
Liquid-Cooled ESS

Model	WS-L4300-BC-3-A
DC Battery	
Battery Type	$LiFePO_4$
Nominal Capacity (Cell)	314Ah
Nominal Energy	4340kWh
PACK Configuration	1P48S
RACK Configuration	18 × 1P240S
Nominal DC Voltage	768Vdc
DC Voltage Range	648Vdc ~ 876Vdc
Charge and discharge rate	⩽0.5P
Max. Charging / Discharging Current	3150A (18 × 175A)
No. of DC Output	18
System	
Operating Temperature	-30°C ~ +50°C
Storage Temperature	-30°C ~ +60°C
Humidity	0 ~ 95%
Type of cooling	Liquid cooling
Fire Suppression	Aerosol、Water
Ingress Protection	IP55
Anticorrosion grade	C4-M（Optional C5）
Altitude	⩽2000m
Communication	CAN、RS485、TCP、DIDO
Weight	38500kg
Dimensions (W × D × H)	6058 × 2438 × 2896mm

Liquid-Cooled ESS

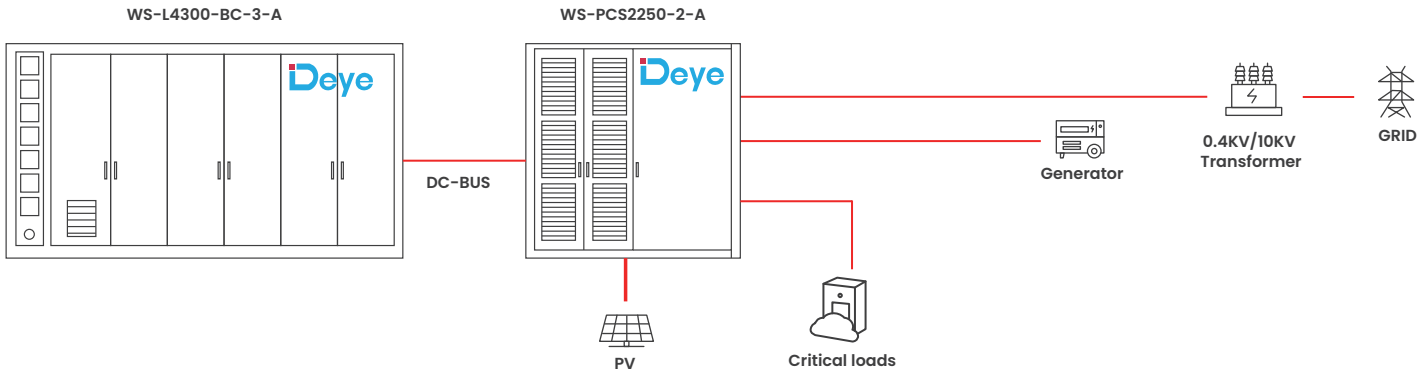
Model	WS-PCS2250-2-A
PCS Data	
AC Rated Power	2250kW (18 × 125kW)
AC Rated Voltage / Frequency	400Vac / 50Hz (3L+N+PE)
AC Rated Current	3248A (18 × 180.4A)
Max Power	2250 (18X125KW)
Power Factor	-1 ~ +1
Battery Input Voltage Range	630Vdc ~ 1000Vdc
Max. DC Charging / Discharging Current	(18 × 190A)
MPPT Data	
Max. PV Input Power	2880kW (18 × 160kW)
Max. PV Input Voltage	800Vdc
Start-up Voltage	200Vdc
Max Operating PV Input Current	18 × (40+40+40+40+40+40+40+40) A
No. of MPP Trackers	144 (18 × 8)
System Data	
Grid Side Data	
AC Rated Voltage / Frequency	400Vac / 50Hz (3P4W)
AC Max Current	5400A
Gen Side Data	
AC Rated Voltage / Frequency	400Vac / 50Hz (3P4W)
AC Max Current	3600A
Load Side Data	
AC Rated Voltage / Frequency	400Vac / 50Hz (3P4W)
AC Max Current	3247A
General Data	
Operating Temperature	-30°C ~ +50°C
Humidity	0 ~ 95% (No condensation)
Ingress Protection	IP55
Anticorrosion grade	C4-M（Optional C5）
Altitude	⩽2000m
Weight	8000kg
Dimensions (W × D × H)	2991 × 2438 × 2896mm

UTILITY-SCALE ESS Solution

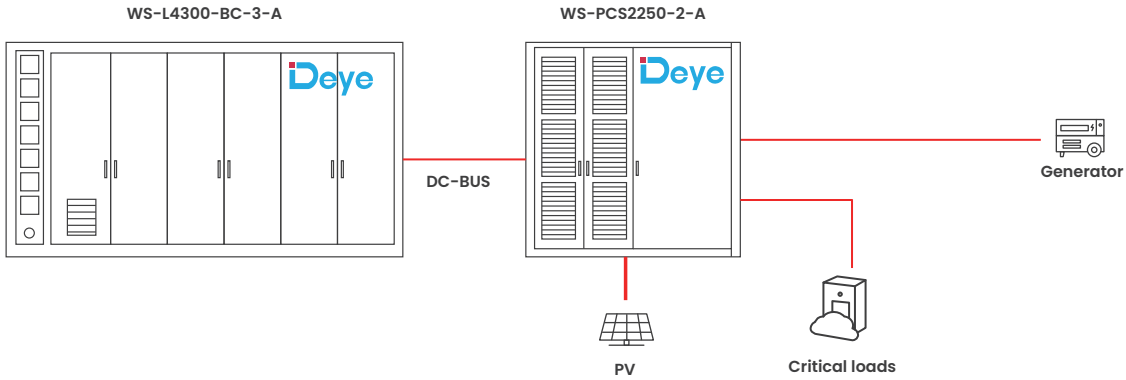


Typical Application Scenarios

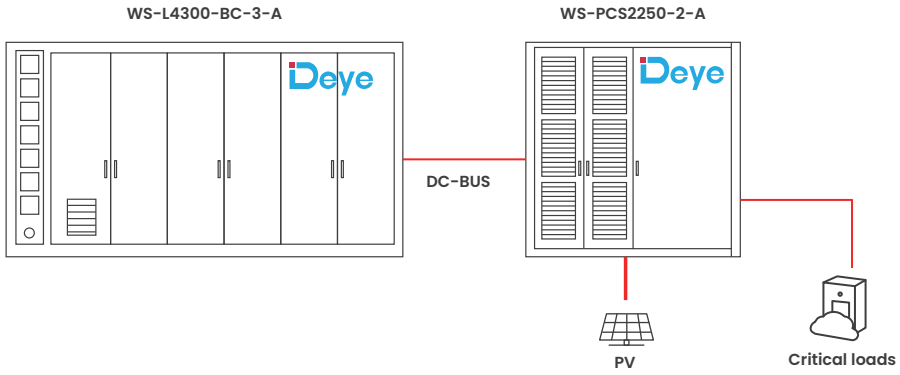
PV + Energy Storage + Diesel Generator Microgrid Solution



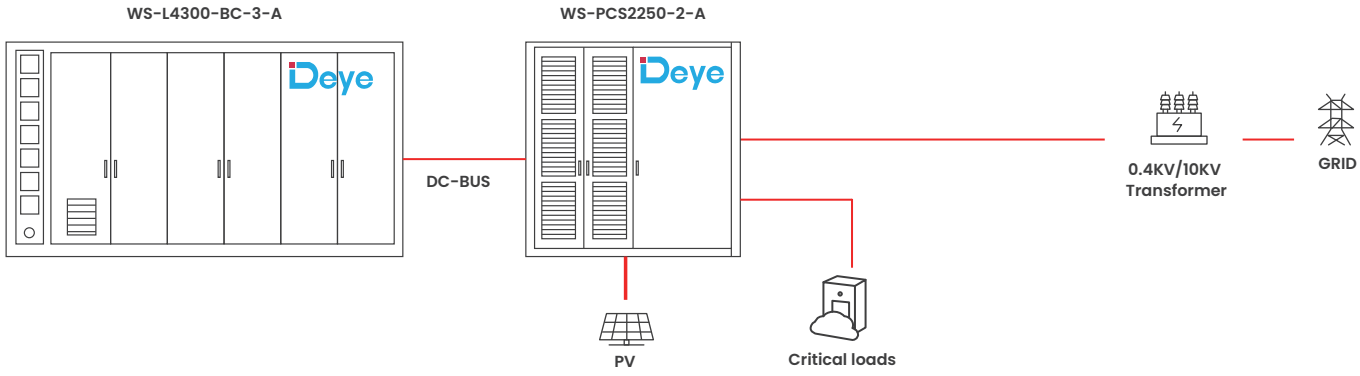
PV+ Energy Storage + Diesel Generator off-grid Solution



PV + Energy Storage Off-grid Solution



On-grid Energy Storage Solution with Backup Power



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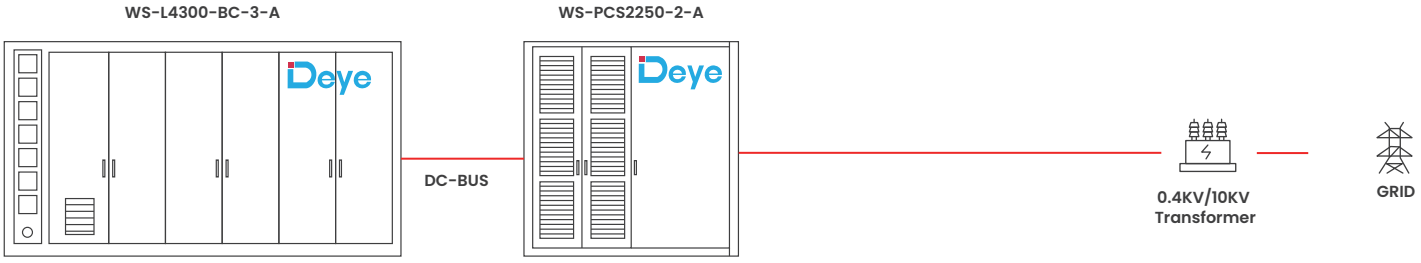
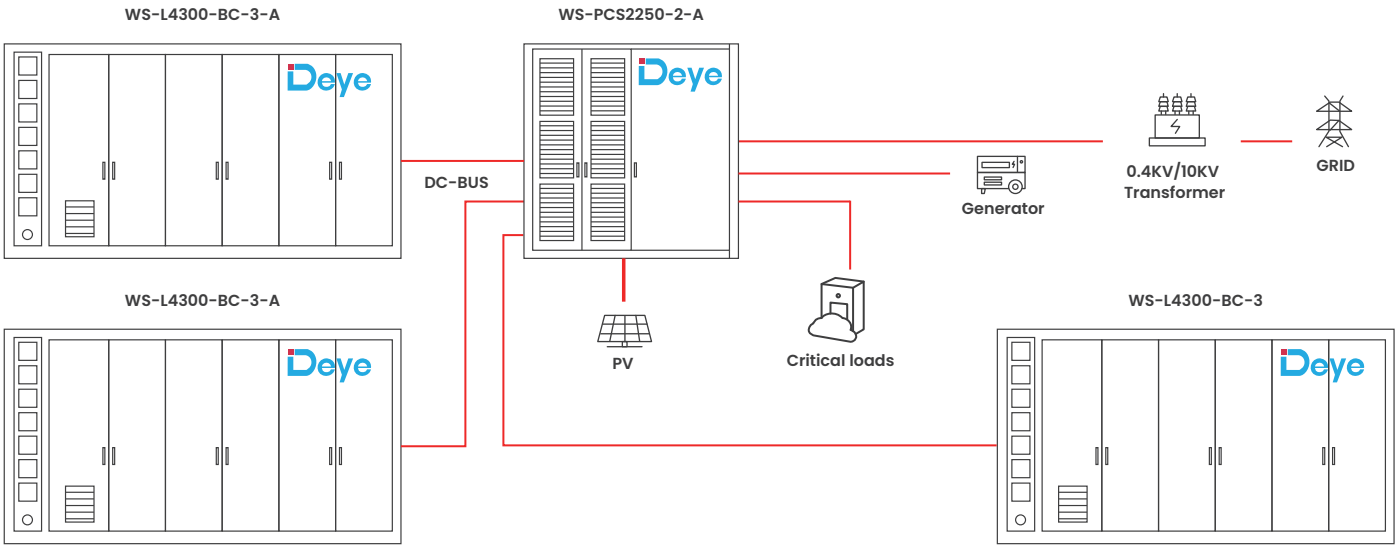
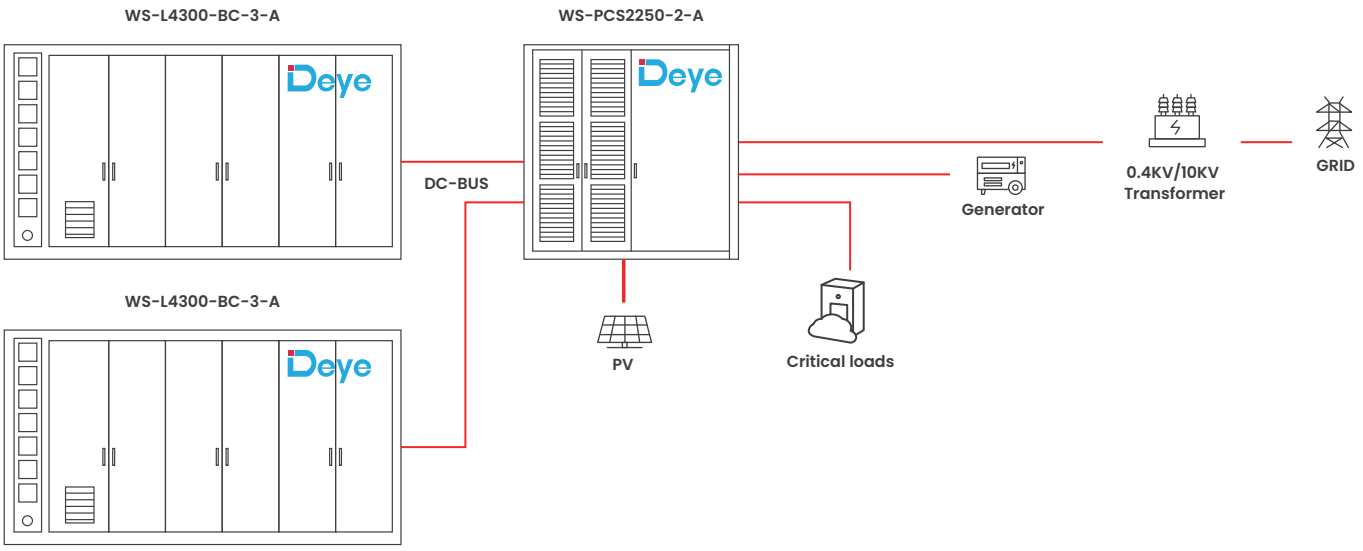


6-hour Energy Storage Solution

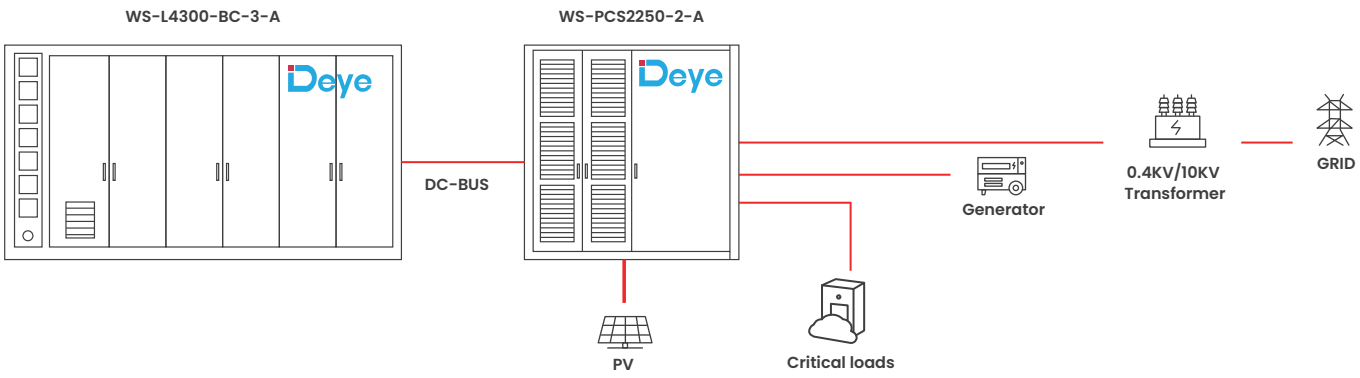


4-hour Energy Storage Solution



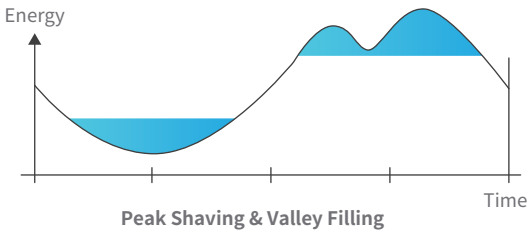
Typical Application Scenarios

2-hour Energy Storage Solution



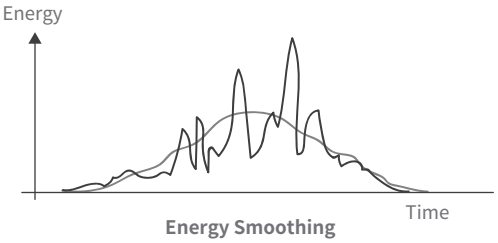
Application Scenarios
Ideal for medium to large C&I microgrid applications

1.Applied in medium to large-scale C&I applications (Peak Shaving & Valley Filling)



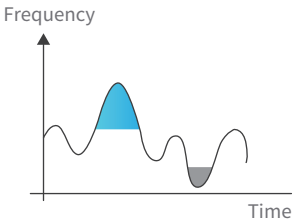
Peak Shaving & Valley Filling

2.Integrated with renewable energy storage systems to smooth power output

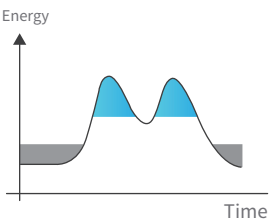


Energy Smoothing

3.Used for Peak Shaving and Frequency Regulation on the power generation side



Frequency Regulation



Peak Shaving

4.Participates in virtual power plants to provide ancillary power services (electricity trading)