

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
- 1125kW PCS, 1400kW PV



Seamless Scalability

- Modular Architecture
- Flexible 2/4h Energy Storage Solutions
- Compact Design, High Energy Density



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

1440kW

PV DC Coupling

10 Years

Warranty

5 Levels

Fire Protection

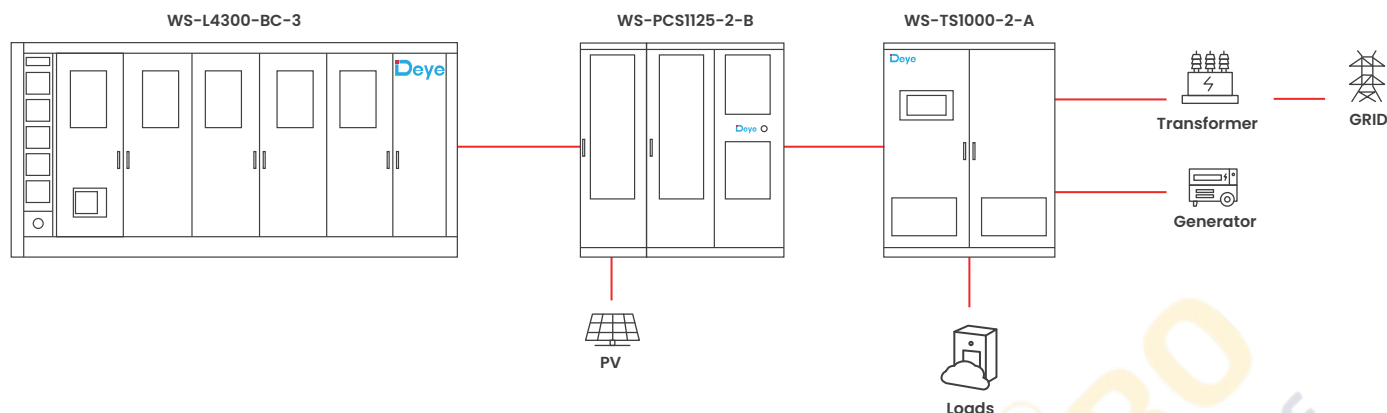


Model	WS-L4300-BC-3
DC Battery	
Battery Type	LiFePO ₄
Nominal Capacity (Cell)	314Ah
Nominal Energy	4340kWh
PACK Configuration	1P48S
RACK Configuration	18 × 1P240S
Nominal DC Voltage	768Vdc
DC Voltage Range	648Vdc ~ 876Vdc
Charge and discharge rate	≤0.5P
Max. Charging / Discharging Current	3150A (18 × 175A)
No. of DC Output	18
System	
Operating Temperature	-30°C ~ +55°C
Storage Temperature	-30°C ~ +60°C
Humidity	0 ~ 95% (No condensation)
Type of cooling	Liquid cooling
Fire Suppression	Aerosol、Water
Ingress Protection	IP55
Anticorrosion grade	≥C4
Altitude	≤2000m
Communication	CAN、RS485、TCP、DIDO
Weight	40000kg
Dimensions (W × D × H)	6058 × 2438 × 2896mm

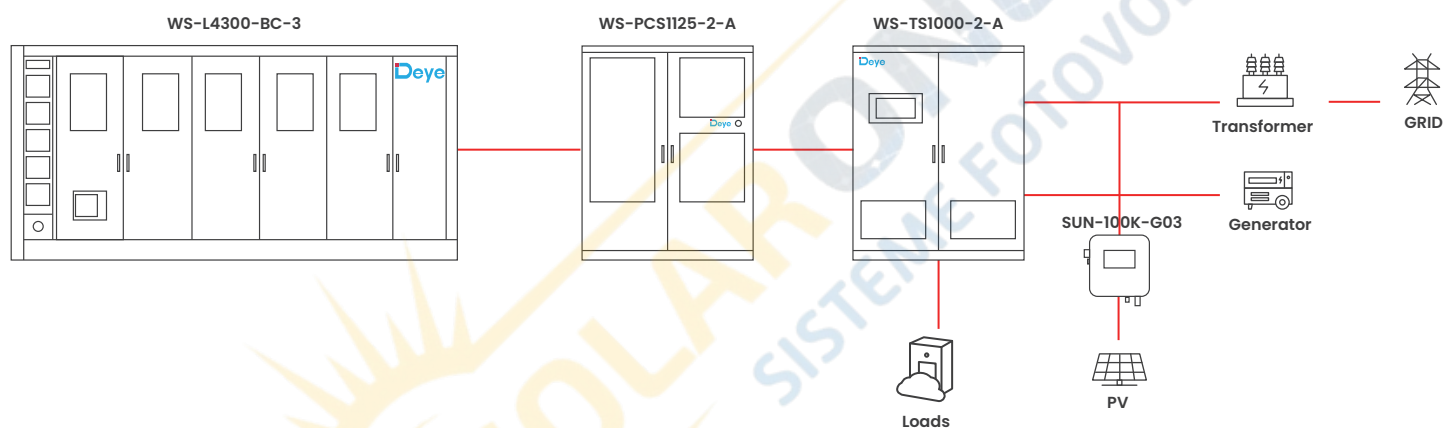
Model	WS-PCS1125-2-A		WS-PCS1125-2-B
PCS Data			
AC Rated Power	1125kW (9 × 125kW)		
AC Rated Voltage / Frequency	400Vac / 50Hz (3L+N+PE)		
AC Rated Current	1624A (9 × 180.4A)		
Max Power	1237.5kW (9 × 137.5kW)		
Power Factor	-1 ~ +1		
Battery Input Voltage Range	630Vdc ~ 1000Vdc		
Max. Charging / Discharging Current	1710A (9 × 190A)		
MPPT Data			
Max. PV Input Power	/	1800kW (9 × 200kW)	
Max. PV Input Voltage	/	800Vdc	
Start-up Voltage	/	200Vdc	
Max Operating PV Input Current	/	9 × (40+40+40+40+40+40+40+40) A	
No. of MPP Trackers	/	72 (9 × 8)	
System Data			
General Data			
Operating Temperature	-25°C ~ +55°C		
Humidity	0 ~ 95% (No condensation)		
Ingress Protection	IP54		
Anticorrosion grade	≥C4		
Altitude	≤2000m		
Weight	待定	≤3600kg	
Dimensions (W × D × H)	2000 × 1350 × 2450mm	2300 × 1000 × 2450mm	
Model	WS-TS1000-2-A		
Grid Side Data			
Rated AC Input/Output Active Power (kw)	1000		
Rated AC Input/Output Current(A)	1450		
Rated input/Output Voltage(V)	220/380,230/400 (three phase)		
Grid Connection Form	3L/N/PE		
Rated input/Output Grid Frequency	50Hz/60Hz		
Load Side Data			
Rated AC Input/Output Active Power(kw)	1000		
Rated AC Input/Output Current	1450		
Rated Input/Output Voltage(V)	220/380,230/400(three phase)		
Grid Connection Form	3L/N/PE		
Rated input/Output Grid Frequency	50Hz/60Hz		
GEN Side Data			
Rated AC Input/Output Active Power (kW)	1000		
Rated AC input/Output Current(A)	1450		
Rated Input/Output Voltage(V)	220/380,230/400 (three phase)		
Grid Connection Form	3L/N/PE		
Rated input/Output Grid Frequency	50Hz/60Hz		
System Data			
Dimension (W x D x H, mm)	2000 × 1200 × 2450mm		
Weight Appr. (kg)	1500		
System Operating temperature range	-30°C~+50°C		
Max. working altitude (m)	≤3000		
IP Rating of Enclosure	IP54		
Switching Time (ms)	≤20		

Model	MS-EMS
System	
Configuration	EMS controller, lightning protection module, switch power supply, UPS module, switch
Function	Basic functions : peak valley arbitrage, anti backflow, main transformer overload protection, load tracking, demand control, backup power function, phase separation control, SOC balancing, Deye Cloud monitoring Advanced features : load forecasting, production planning, electricity price planning, optimal economic curv
Communicate	
Ethernet (5 channels)	10 / 100 / 1000 Mbps
Fiber optic port (2 channels)	1Gbps
USB (2 channels)	Host
CAN (3 channels)	Isolation, with 2 channels supporting CAN-FD
RS485 (8 channels)	Isolation
RS232 (3 channels)	2 isolated channels, 1 non isolated debugging channel (DB9 socket)
TF Card (1 channel)	Standard TF card holder
LVDS (1 channel)	The physical interface is DVI (including 1 USB for touch)
M. 2 Interfaces (1 channel)	PCIe2.0 X1, Scalable SSD (standard 1TB)
MiniPCle Interface (1 channel)	4G card with expandable USB communication protocol (standard)
Nano SIM Interface (1 channel)	Used in conjunction with the miniPCle expansion 4G module
DI (17 channels)	Optocoupler isolation
DO (8 channels)	Relay isolation
WLAN	802.11 b / AC g n, HT 20 / 40, 2.4 GHz 5 Ghz
4G Antenna	Support multi country frequency bands
Power Supply	
Communication Input	220Vac
DC IN	24Vdc
UPS Backup Power	24Vdc
Consumption	Max 25W
Environmental parameters	
Operation Temperature	-15°C ~ +50°C
Storage Temperature	-15°C ~ +50°C
Working Humidity	5% ~ 95%
Max. Working Altitude (m)	≤3000m
IP Rating of Enclosure	IP54
Anti-Corrosion Grade	≥C4
Mechanical parameters	
Dimension (W × D × H, mm)	488 × 188 × 588
Weight Appr. (kg)	≤24.5kg
Installation Location	Indoor or outdoor, wall-mounted
Box Material	Metal
Incoming Specifications	AC power cord : Recommended wire diameter 1.5mm² DC power cord : Recommended wire diameter of 1.5mm² Eight core Ethernet cable: Recommended CAT5e Ethernet cable RS485 : Recommended 0.75mm²~1.5mm² outdoor UV protection with shielding layer twisted pair cable length<1000m (baud rate 9600)

PV-BESS DC-Coupled Solution



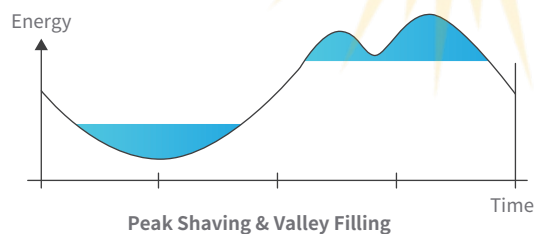
PV-BESS AC-Coupled Solution



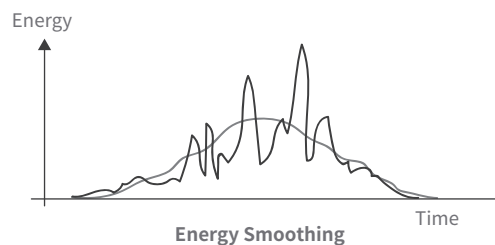
Application Scenarios

Ideal for medium to large C&I microgrid applications

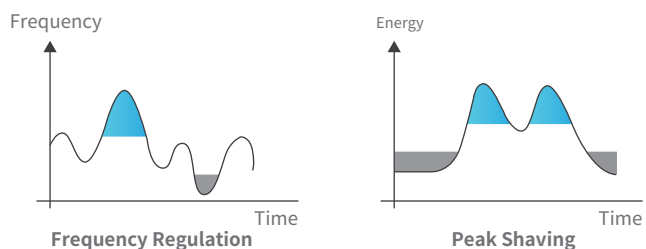
1. Applied in medium to large-scale C&I applications (Peak Shaving & Valley Filling)



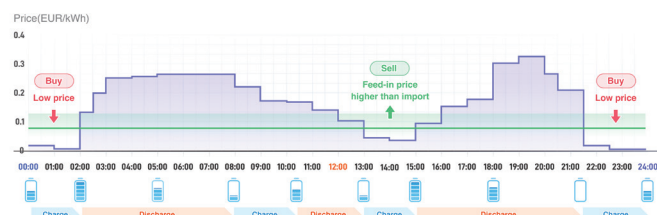
2. Integrated with renewable energy storage systems to smooth power output



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



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





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