

AIO-Cabinet-EU/US



All-in-one Energy Storage System

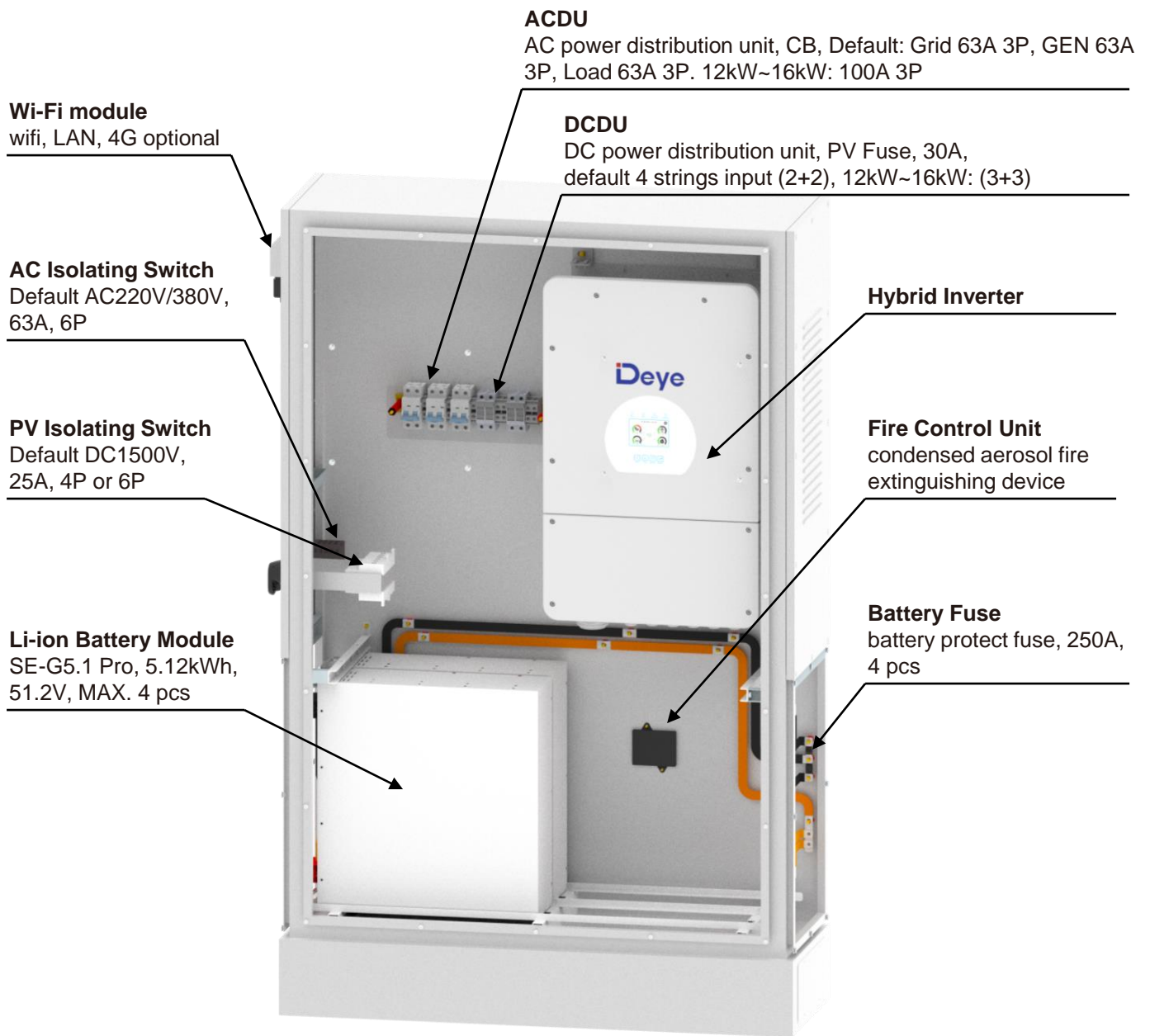
- ◆ All-in-one design, could integrated 3kW~16kW low voltage hybrid inverter and 5kWh~30kWh battery
- ◆ Comfortable and easy control via App, PC or Touch-Display
- ◆ Leading smart application: peak-shaving, smart load, AC couple etc.
- ◆ Modular lithium iron phosphate battery, module capacity 5kWh, scalable and safety
- ◆ Flat design, floor mount, Simple line design, quick and easy installation
- ◆ Fast switching time of 4ms, ensuring your energy security

Deye

Stock Code: 605117.SH

Model	AIO-Cabinet-EU	AIO-Cabinet-US
System Specification		
Hybrid Inverter Model	SUN-3/3.6/5/6K-SG04LP1-EU SUN-3.6/5/6K-SG03LP1-EU SUN-3.6/5/6/7.6/8K-SG05LP1-EU SUN-12/14/16K-SG01LP1-EU	SUN-5/6/8/10/12K-SG04LP3-EU SUN-5/6K-SG01LP1-US SUN-7.6/8K-SG01LP1-US
Grid Type	Single phase	Three phase Split phase
AC Input/Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac	50/60Hz; 3L/N/PE 220/380, 230/400Vac 60Hz(55Hz-65Hz); L1/L2/N(PE) 120/240/208Vac
Battery Energy Configuration	5kWh ~ 30kWh	
Dimension (W x D x H)	Cabinet Type I : 39.4" × 13.8" × 61.8" (1,000×350×1,570 mm) Cabinet Type II: 25.6" × 19.1" × 78.7" (650×485×2,000 mm)	
Cabinet Weight Approximate	Cabinet Type I : 198 lbs.(90kg) Cabinet Type II: 187 lbs.(85kg)	
Max. Charging/Discharging Current (A)	Depends on the inverter model and Battery QTY. (70A ~ 250A)	
Battery Operating Voltage (V)	43.2 ~ 57.6	
Battery Chemistry	LiFePO ₄	
Enclosure Protection Rating	NEMA 3R (IP54)	
Display	LCD(inverter)	
Installation Style	Floor-Mounted	
Warranty	5 years	
Inverter Technical Specification		
Depends on the inverter model		
Communication with BMS	CAN	
Safety EMC / Standard	UL1741, FCC, IEC/EN 62109-1,IEC/EN 62109-2, IEC/EN 61000-6-1,IEC/EN 61000-6-2, IEC/EN 61000-6-3,IEC/EN 61000-6-4	
Grid Regulation	VDE4105,IEC61727/62116,VDE0126,AS4777.2,CEI 0 21,EN50549-1,G98,G99, C10-11,UNE217002,NBR16149/NBR16150	
Max. Efficiency	97.60%	
Max. charging/discharging efficiency	95.00%	
Battery Technical Specification		
Nominal Voltage (V)	51.2	
Battery Module Energy (kWh)	5.12	
Battery Module Dimension	16.5"×9.2"×26.4" (445×430×133mm)	
Battery Module Weight	97 lbs.(44kg)	
Operating Temperature Range	Charge: 32°F ~ 131°F (0 ~ 55°C),Optional Heating (Charge: -20°C ~ 55°C) Discharge: -4°F ~ 131°F (-20°C ~ 55°C)	
Operating Temperature (Recommended)	59°F ~ 86°F (15°C ~ 30°C)	
Storage Temperature	32°F ~ 95°F (0°C ~ 35°C)	
Humidity	5%~95%	
Altitude	≤Max. 6562 ft (2,000m)	
Cycle Life	≥6,000(@25°C±2°C,0.5C/0.5C,70%EOL)	
Battery Module Certification	UN38.3, IEC62619, CE,VDE2510-50, CEI 0-21, UL1973, UL9540A, FCC	

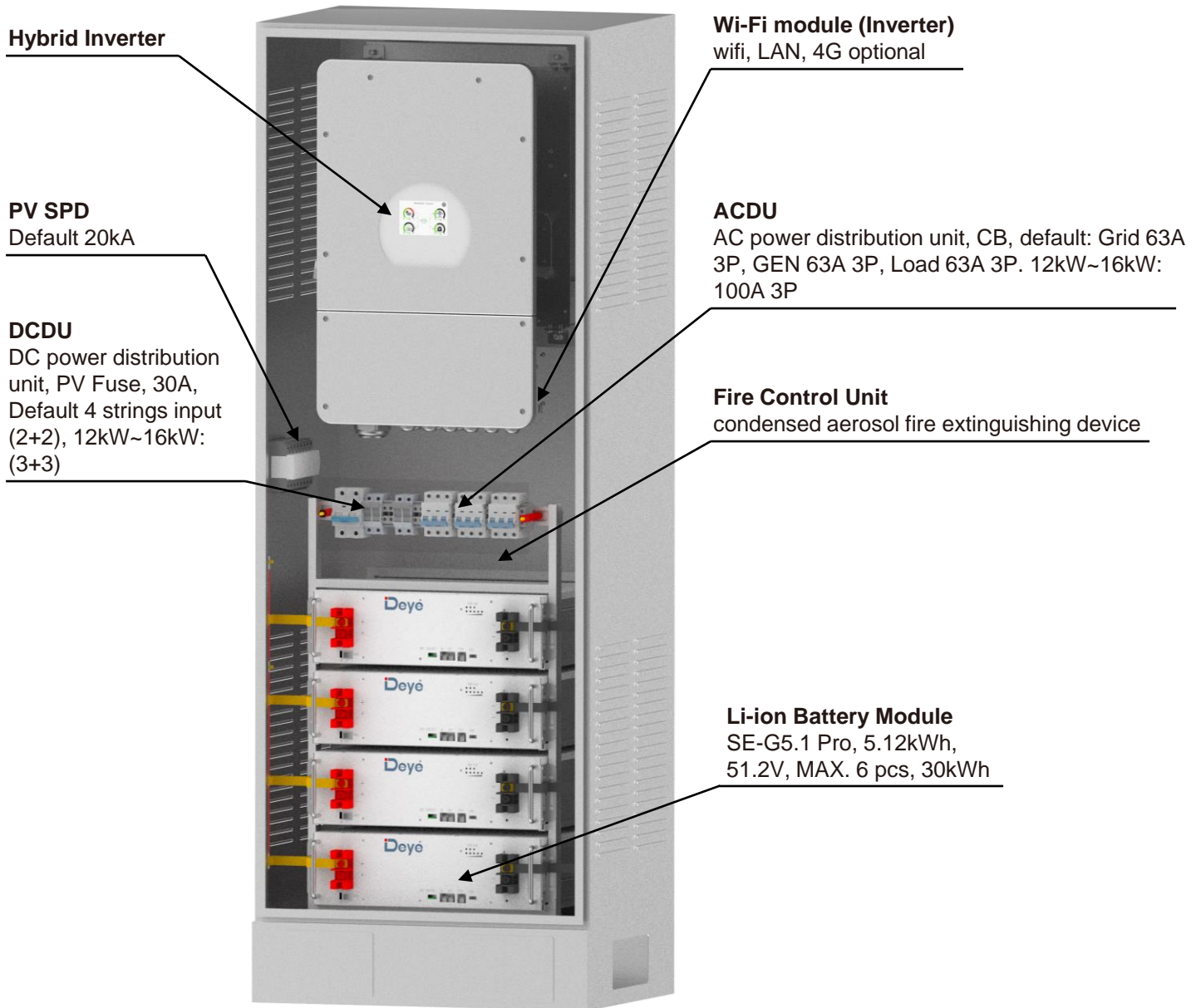
Cabinet Type I



List of critical electrical parts (US Default)

Part Name	Brand	Specifications	Default QTY.
Fuse(Battery)	ASTM	A121601-250	4
Fuse(PV)	ASTM	HV110.PV30A	4
AC Circuit Breaker	LAZZEN	NDB2T-63 C40/2L	1
AC Circuit Breaker	LAZZEN	NDB2T-63 C63/2L	2
Terminal Blocks	Phoenix	3000774	7
AC Isolating Switch	ABB	OT60F6	1
PV Isolating Switch	PROJOY	PEDS150R-HM25R-4	1

Cabinet Type II



List of critical electrical parts (EU Default)

Part Name	Brand	Specifications	Default QTY.
Battery Circuit Breaker	LAZZEN	NDB1-125 C125/1	4
AC Circuit Breaker	LAZZEN	NDB1-125 C63/3	3
Fuse(PV)	ASTM	HV110.PV30A	4
PV SPD	LAZZEN	NDU1Z 20kA	2
Terminal Blocks	Phoenix	3000774	7

System Application Block Diagram

