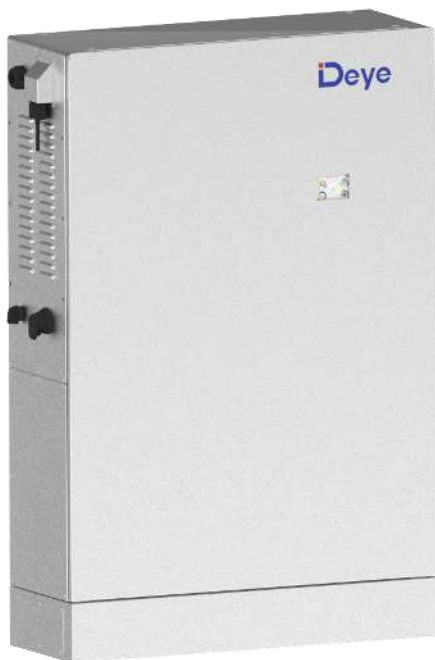


AIO-Cabinet-EU/US



All-in-one Energy Storage System

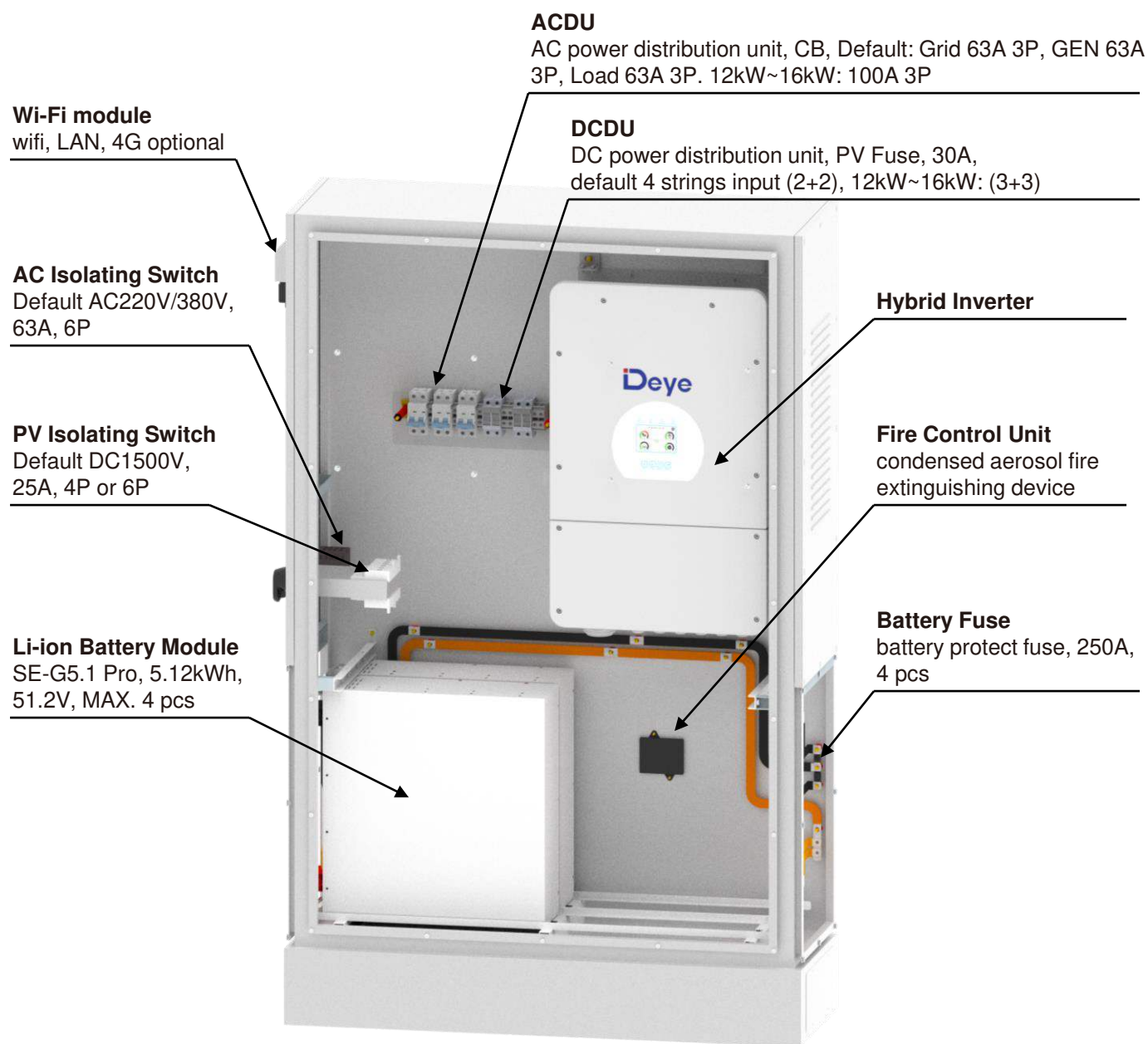
- ◆ All-in-one design, could integrated 3kW~16kW low voltage hybrid inverter and 5kWh~30kWh battery
- ◆ Comfortable and easy control via App, PC or Touch-Display
- ◆ Leading smart application: peak-shaving, smart load, AC couple etc.
- ◆ Modular lithium iron phosphate battery, module capacity 5kWh, scalable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



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		

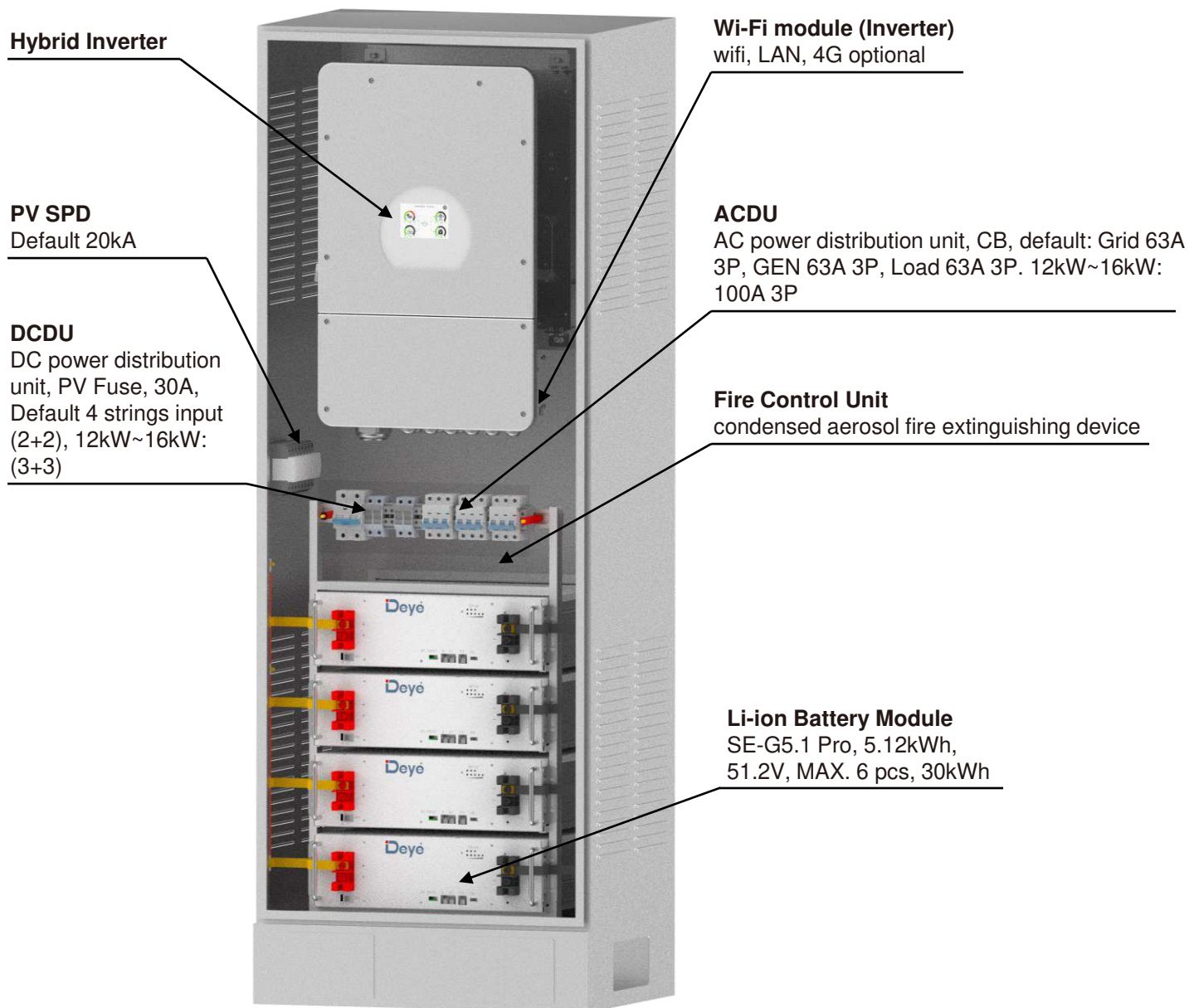
Cabinet Type I



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

