

AIO-7.6k-20kWh-Cabinet-US



All-in-one Energy Storage System

- ◆ All-in-one design, integrated 7.6kW hybrid inverter and 15kWh~20kWh 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-7.6k-15-US	AIO-7.6k-20-US
System Specification		
Nominal AC Output Power/UPS Power (W)	7,600 / 7,600	
AC Input/Output Frequency and Voltage	60Hz(55Hz-65Hz); L1/L2/N(PE) 120/240/208Vac	
Grid Type	Split phase	
Energy Configuration (kWh)	15.36	20.48
Dimension (W x D x H)	39.4"×13.8"×61.8" (1,000×350×1,570mm)	
Weight Approximate	540 lbs.(245kg) included 3 batteries	639 lbs.(290kg) included 4 batteries
Max. Charging/Discharging Current (A)	190	
Battery Operating Voltage (V)	43.2 ~ 57.6	
Battery Chemistry	LiFePO4	
Enclosure Protection Rating	NEMA 3R (IP54)	
Display	LCD (Inverter's Screen)	
System Certification	UL1973, UL9540A, UN38.3	
Installation Style	Floor-Mounted	
Warranty	10 years	
Inverter Technical Specification		
Max. PV Input Power (W)	9880(if more than 9880W will limit power operation)	
Max. PV Input Current (A)	26+26	
Rated PV Input Voltage (Vdc)	370 (125~500)	
Start Up DC Voltage (Vdc)	125	
MPPT Voltage Range (Vdc)	150~425	
Max. PV Short-circuit Current (A)	44+44	
Number of MPPT	2	
Peak Power (off grid)	2 time of rated power, 10s	
Power Factor	0.8 leading to 0.8 lagging	
DC injection current (mA)	THD<3% (Linear load<1.5%)	
Operating Temperature Range	-40°F~140°F (-40°C~60°C, >45°C derating)	
Dimension (W×D×H)	16.5"×9.2"×26.4" (420×233×670mm)	
Weight Approximate	70.5 lbs.(32kg)	
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	95.50%	
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) 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	UL1973, UL9540A, FCC, IEC62619, UN38.3	

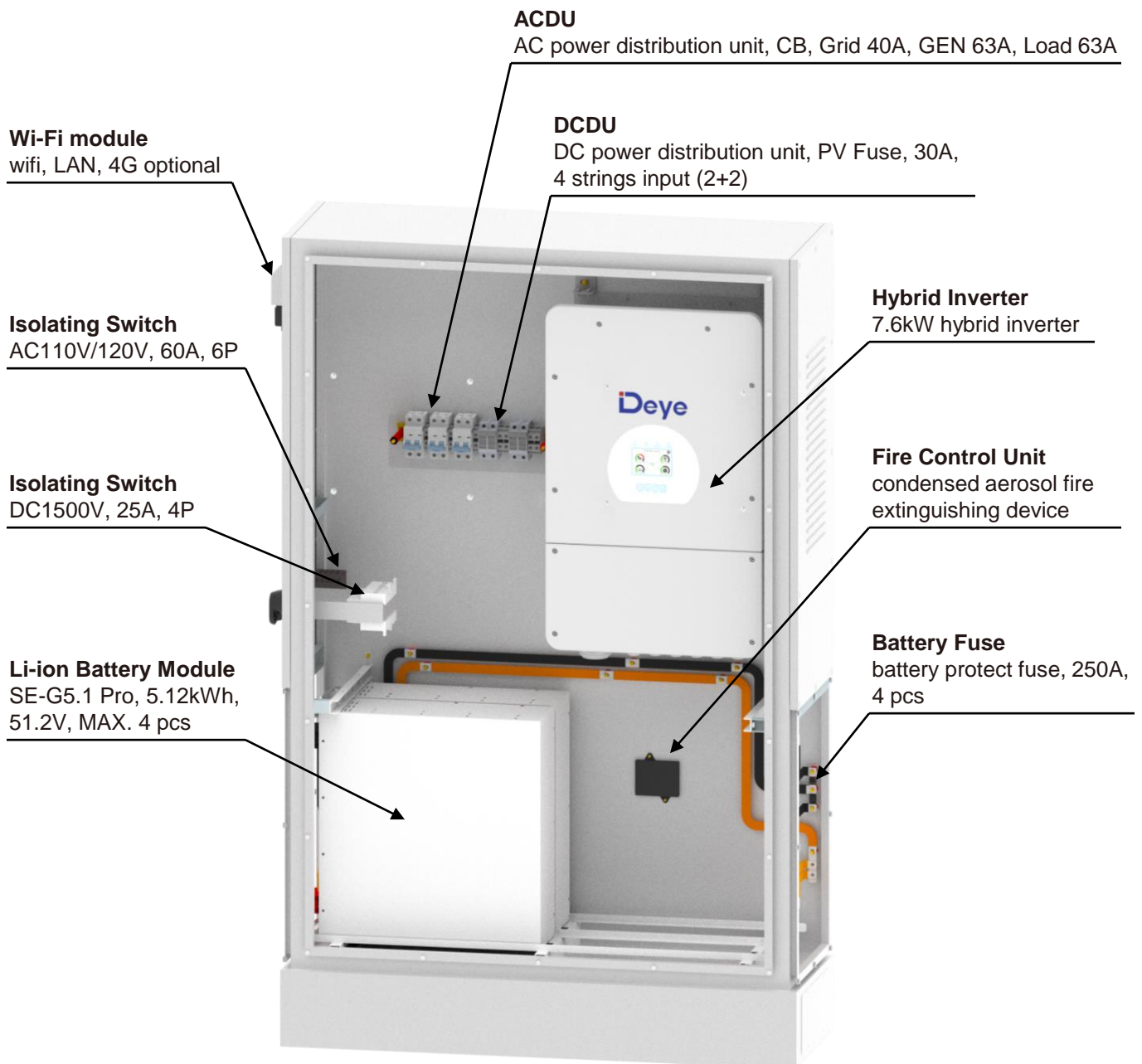
Model	Accessories Parts Description	Remark
7.6k-G20.4-BCable	Battery parallel copper bar and cable (Included)	Inner battery power and communication parallel connection cable



Model: 7.6k-G20.4-BCable

Details: 4 sets, power copper bar and RJ45 communication cable are used for parallel connection of internal batteries.

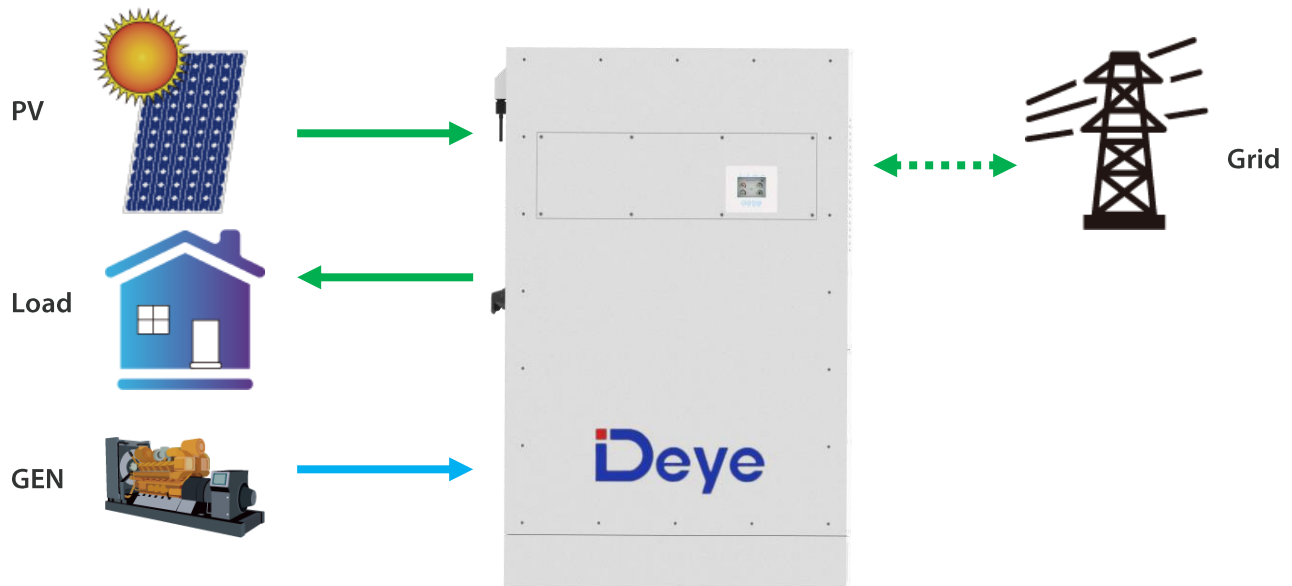
Product internal details



Exploded Views



System Application Block Diagram



Packaging Information

Model	Package Size (1 pc, W×D×H)	G.W.	N.W.	MOQ (per 40HQ container)	Remark
7.6k-20kWh Cabinet (Included inverter)	1075×375×1620 mm	130 kg	110 kg	66 pcs	DG and Non-DG in one container
SE-G5.1 Pro Battery	525×510×210 mm	47 kg	44 kg	198 pcs (15.3kWh) 264 pcs (20.4kWh)	