



Small-Scale C&I ESS

Deye

GE-F120-2/3/4H2

Rated power operation the maximum temperature of the battery is less than 35°C
Suitable for high rate cyclic charging and discharging scenarios

Model	GE-F120-4H2	GE-F120-3H2	GE-F120-2H2
System Specification			
Nominal Output Power / UPS Power (W)	30000	40000	50000
AC Output Frequency and Voltage	50 / 60Hz ; 220 / 380, 230 / 400Vac		
Grid Type	3L / N / PE		
Number of Parallel (Off-grid)	10		
Energy Configuration (kWh)	122.8		
Dimension (W × D × H, mm)	1780 × 1056 × 2235		
Weight Approximate (kg)	2090		
AC Output Rated Current (A)	45	60	75.8
Battery Operating Voltage (V)	500 ~ 700		
Max. RTE	89%		
Battery Chemistry	LiFePO ₄		
IP Rating of Enclosure	IP55		
Installation Method	Floor-Mounted		
Storage Temperature (°C)	0 ~ 35		
Operating Temperature (°C)	-20 ~ 45 (>45 derating)		
Warranty	10 years		
Inverter Technical Specification			
Max. PV Input Power (W)	39000	52000	65000
Max. PV Input Current (A)	36+36+36	36+36+36+36	36+36+36+36
Rated PV Input Voltage (Vdc)	600		
Start Up DC Voltage (Vdc)	180		
MPPT Voltage Range (Vdc)	150-850		
Max. PV Short-circuit Current (A)	55+55+55	55+55+55+55	55+55+55+55
Number of MPPT	3	4	4
Peak Power (off grid)	1.5 time of rated power, 10s		
Power Factor	0.8 leading to 0.8 lagging		
THD	<3%		
DC Injection current (mA)	<0.5%In		
Display	LCD		
Operating Temperature Range (°C)	-40 ~ 60 (>45 derating)		
Relative Humidity	15% ~ 85% (No Condensing)		
Dimension (W × D × H, mm)	527 × 294 × 894		
Inverter Communication	CAN, RS485, WIFI, ETH		
Grid Regulation	VDE 4105, IEC 61727 / 62116, VDE 0126, AS 4777.2, CEI 0-21, EN 50549-1, G98, G99, C10-11, UNE 217002, NBR 16149 / NBR 16150		
Max. Efficiency	97.6%		
MPPT Efficiency	99.9%		
Battery Technical Specification			
Battery Module Nominal Voltage (V)	51.2		
Battery Module Energy (kWh)	5.12		
BMS Communication	CAN		
Battery Module Dimension (W × D × H mm)	440 × 570 × 133		
Battery Module Weight (kg)	44		
Operating Temperature Range (°C)	Charge : 0 ~ 55 / Discharge : -20 ~ 55		
Cycle Life	≥6000 (@25°C±2°C, 0.5C / 0.5C, 70%EOL)		
Battery Module Certification	UN38.3, IEC 62619, IEC 61000		

Typical Application Scenarios

For Small-scale Commercial&Industrial

Farm

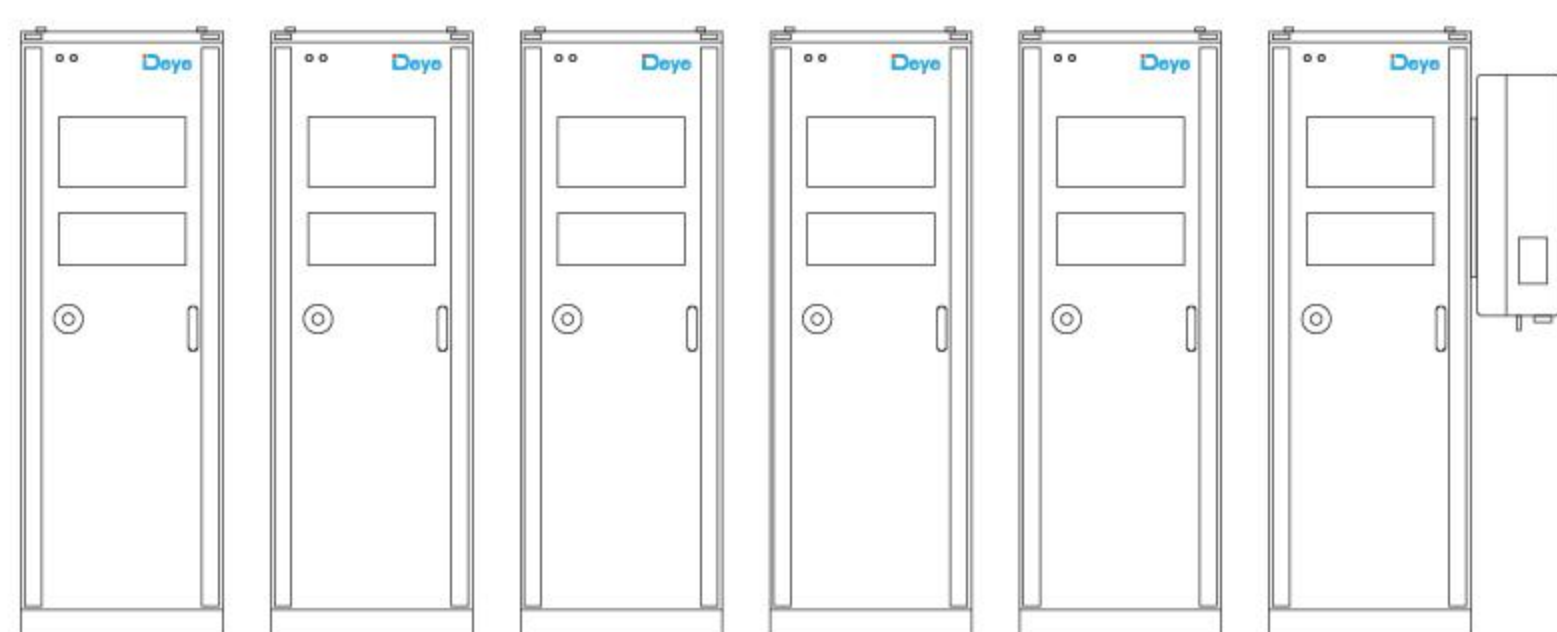
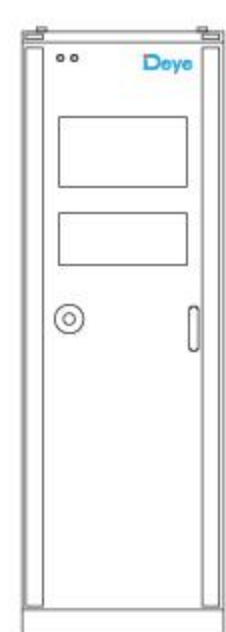
Mall or Shop

Factory

Commercial Building

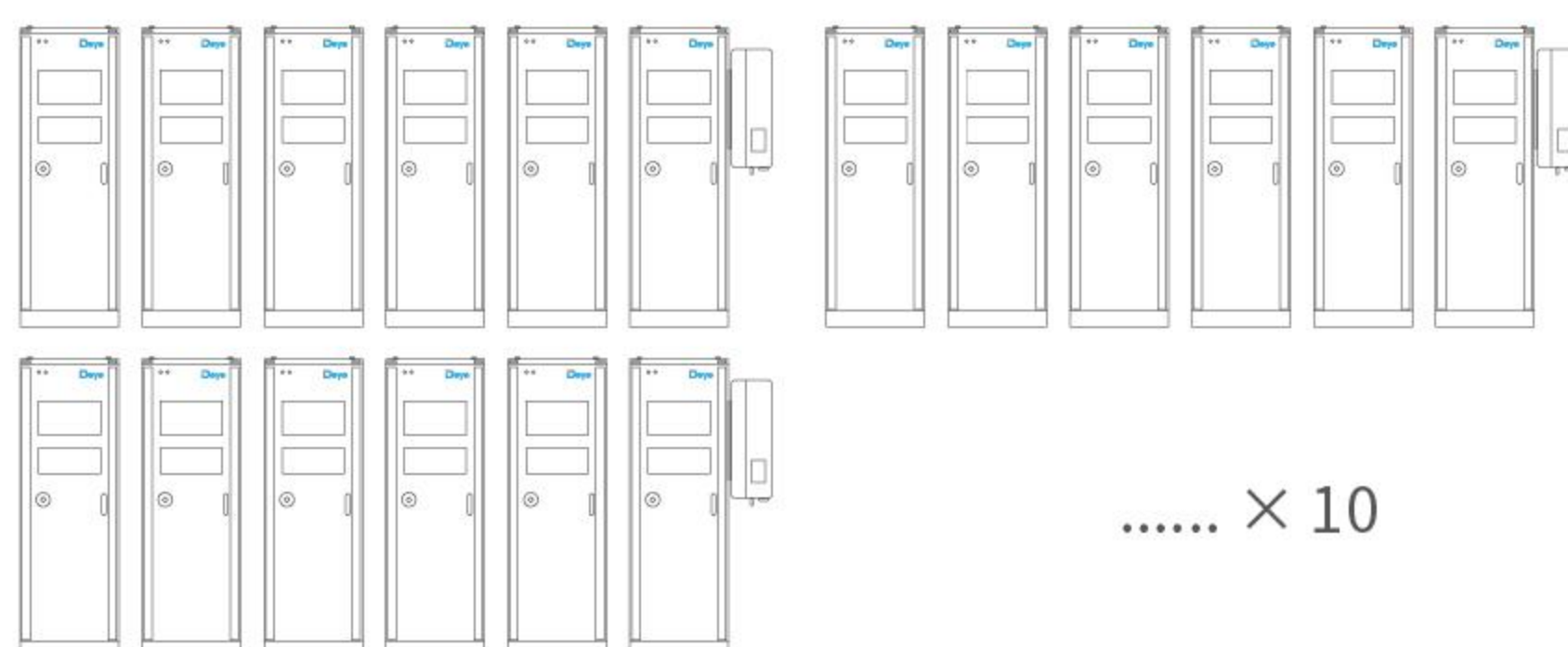
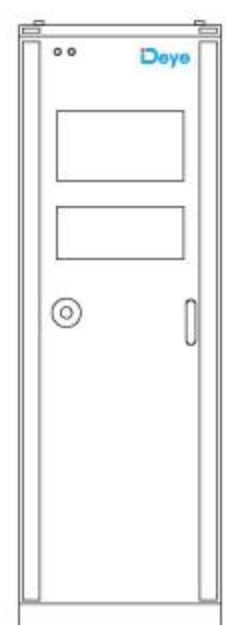


Product Expansion



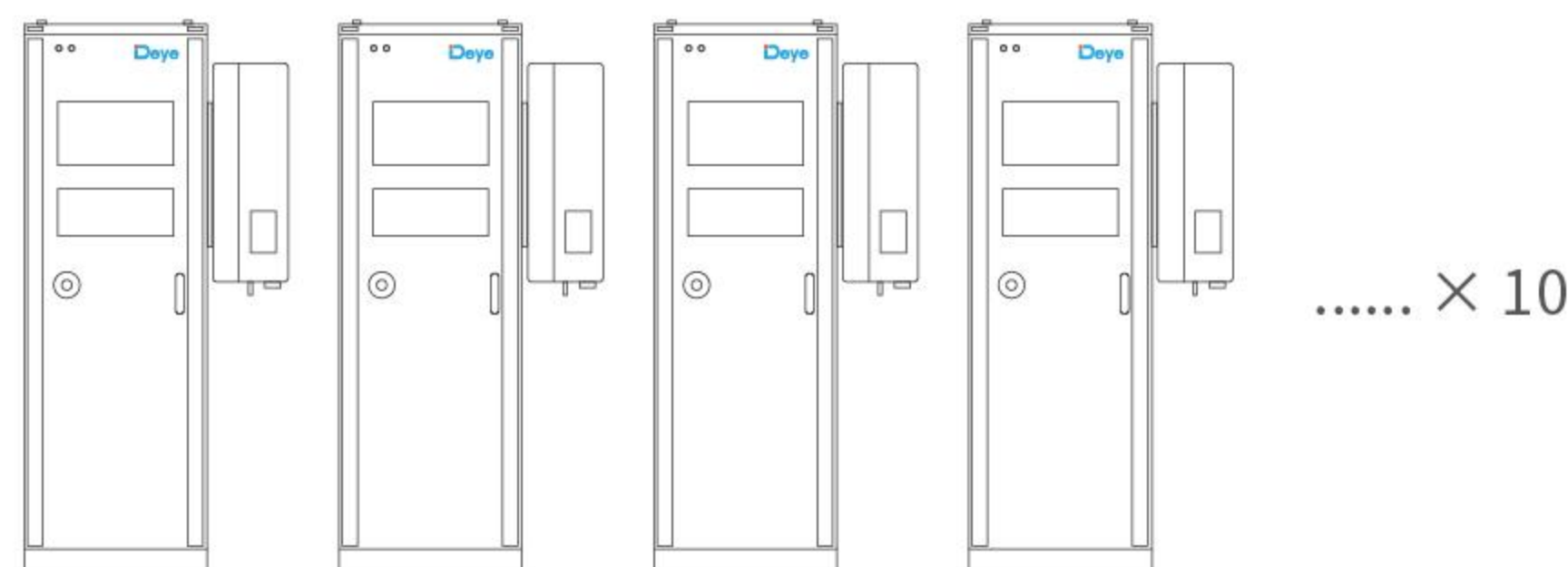
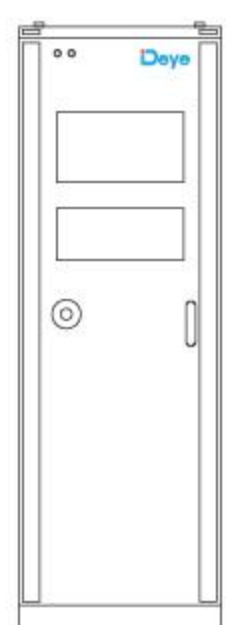
6 × F60+50kW Inverter

Maximum 6 DC parallel-connected units
Up to : 50kW / 360kWh



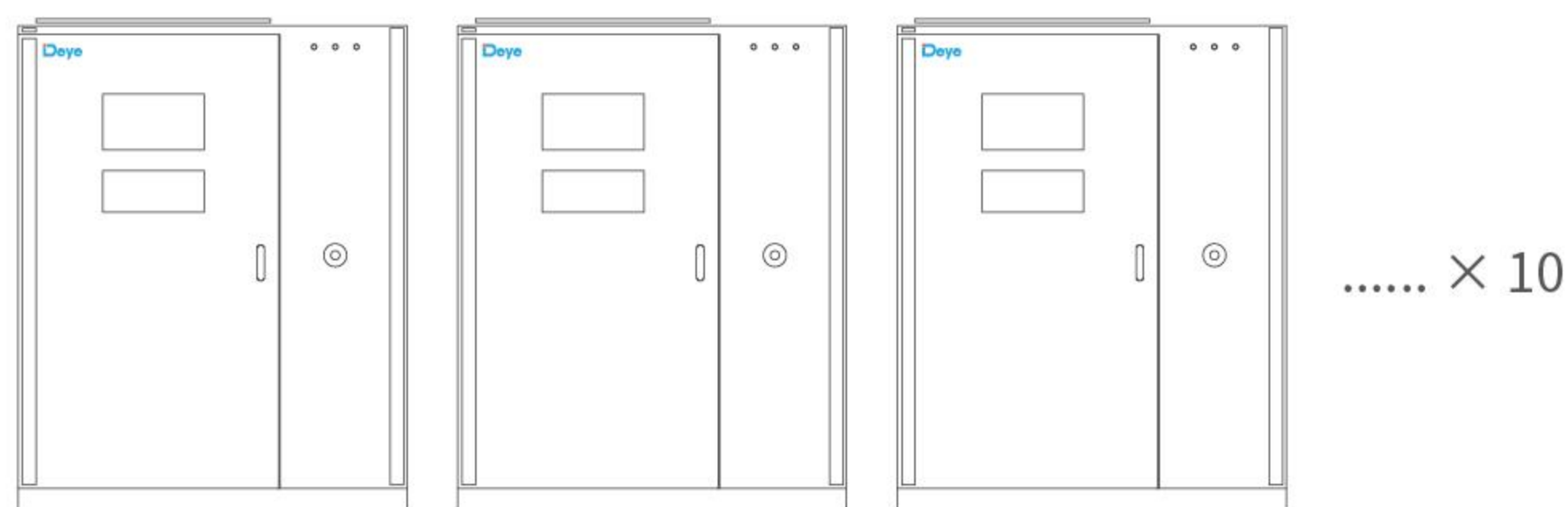
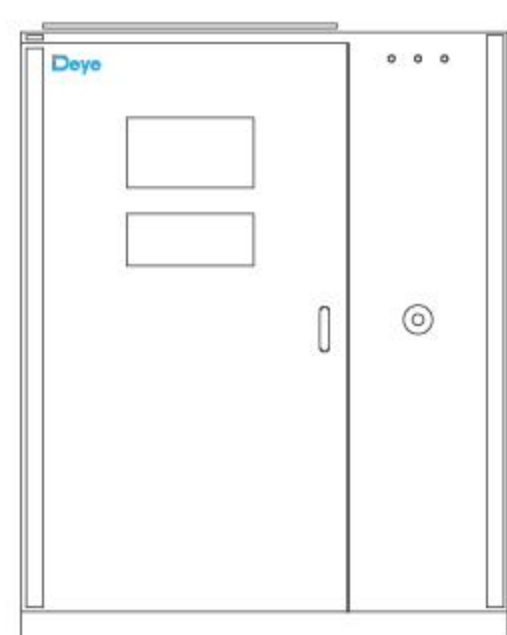
(6 × F60+50kW Inverter) × 10

Maximum 10 groups AC parallel
Up to : 500kW / 3600kWh



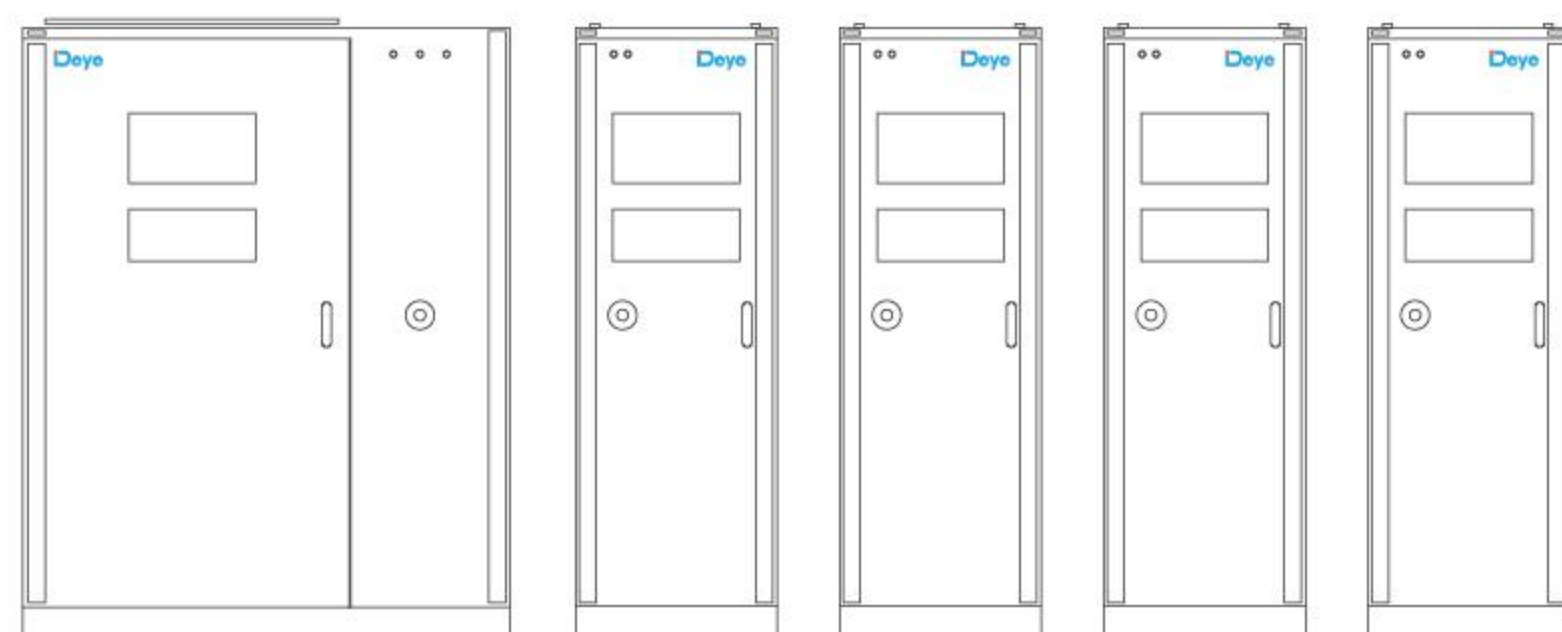
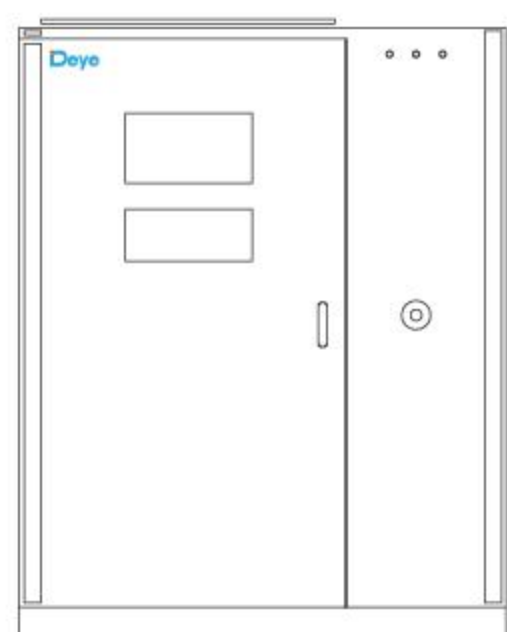
(F60+50kW Inverter) × 10

Maximum 10 groups AC parallel
Up to : 500kW / 600kWh



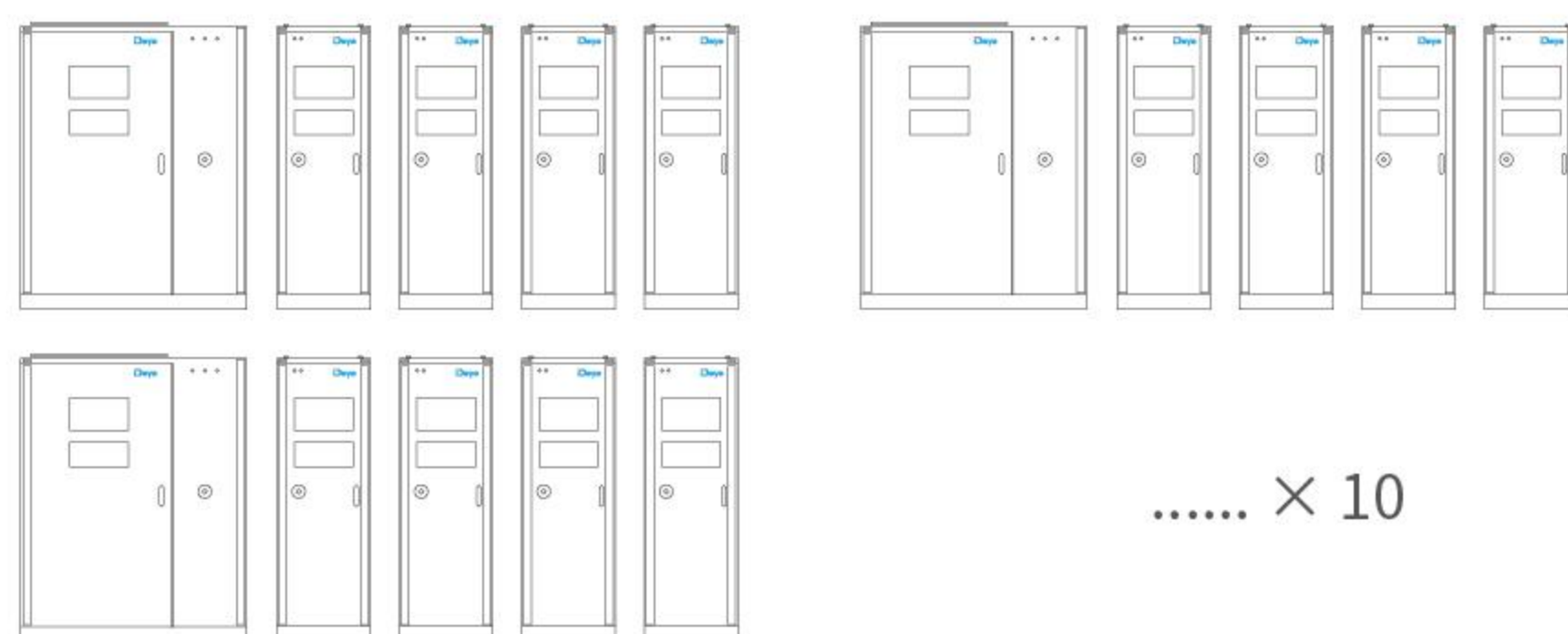
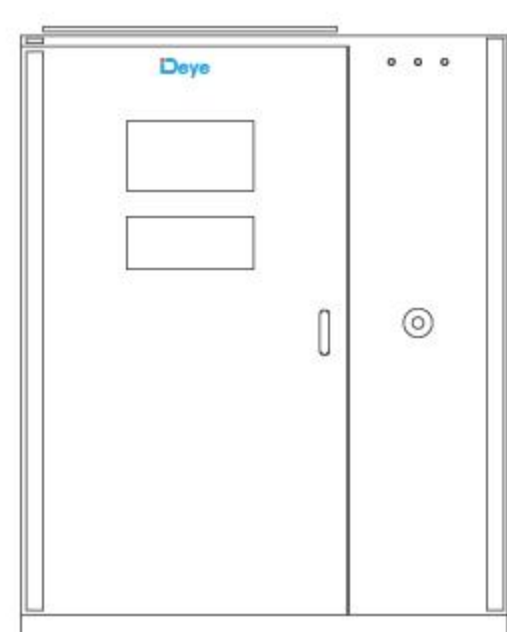
10 × F120

30kW/ 50kW Inverter selectable
Up to : 500kW / 1200kWh



F120+4 × F60

1+4 Combined DC Expansion
Up to : 50kW / 360kWh



(F120+4 × F60) × 10

Maximum 10 groups AC parallel
Up to : 500kW / 3600kWh



Supporting the establishment, data acquisition, data monitoring, one-stop operation maintenance and after-sales service of all new energy power stations.

Through the Deye smart cloud big data platform, all types of power stations with transparent management which improves the value of power stations comprehensively.

CONNECT, MONITOR, CONTROL

Seamlessly integrated with Deye devices for a smarter, more efficient energy experience.

- User-friendly interface demystifies complex settings.
- Clear menu hierarchy, key information at your finger tips.

