

520KWh BESS

——AC-Integrated Battery Energy Storage System



Great One 520 0.25/0.5C Series

AC-Integrated BESS

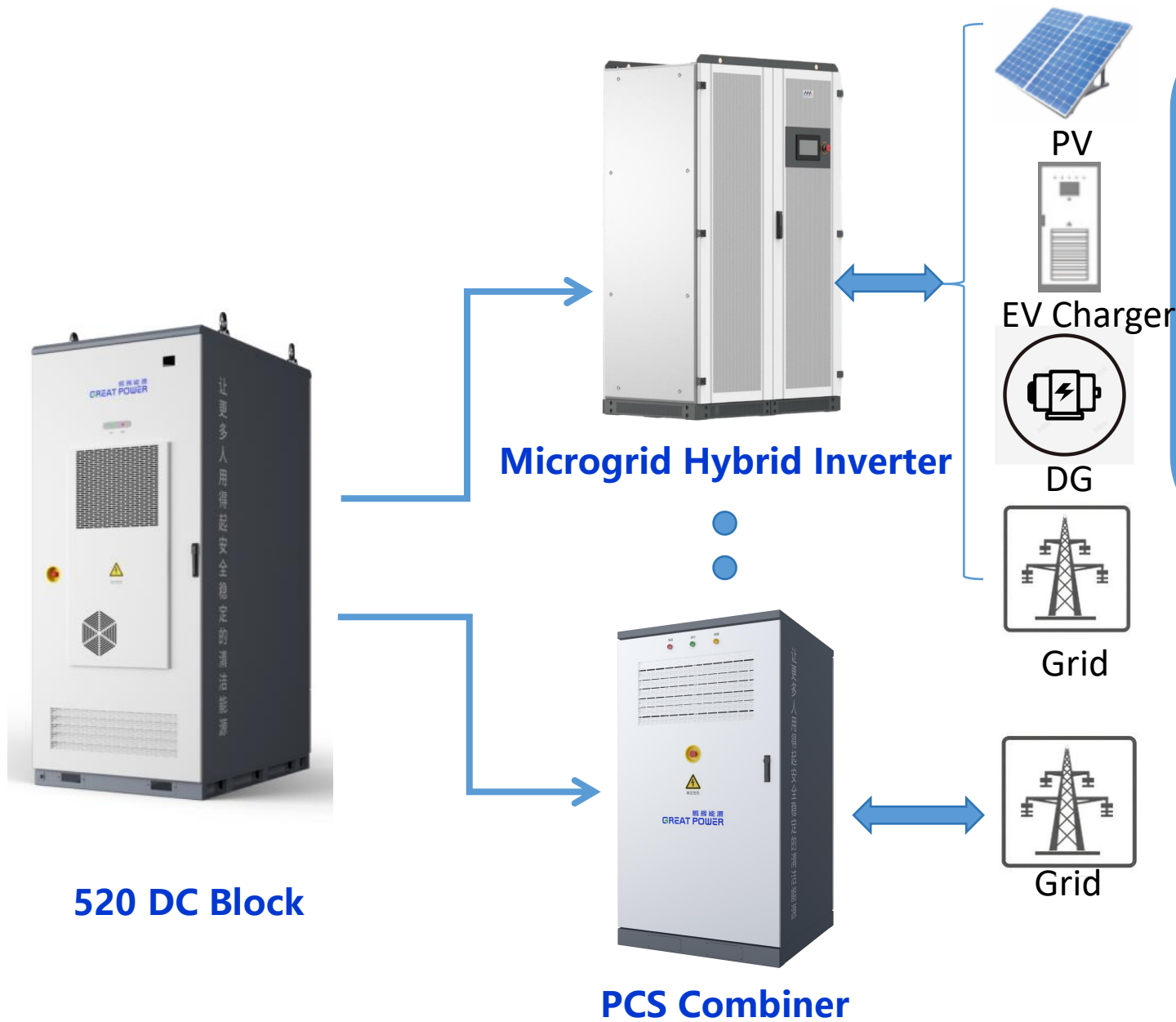
Product Features:
High energy density and exceptional energy efficiency, modular design, high system efficiency, and a combined design for rapid adaptation to application scenarios.

Application Scenarios:
For situations with high electricity demand and limited space, the high density and efficiency advantages of the 520 Series are more prominent, delivering superior long-term returns.



Product Specifications							
System Parameters	Parameters	Great One 520 - 125/520	Great One 520 - 250/1040	Great One 520 - 375/1560	Great One 520 - 500/2080	Great One 520 - 250/520	Great One 520 - 500/1040
	Configuration	125kw PCS×1 520KWh×1	250kw PCS×1 520KWh×2	375kw PCS×1 520KWh×3	500kwPCS×1 520KWh×4	250kwPCS×1 520KWh×1	500kwPCS×1 520KWh×2
	Rated Energy (kWh)	520	1040	1560	2080	520	1040
	Rated Power (kW)	125	250	375	500	250	500
	C-Rate	≤0.25P/0.25C				≤0.5P/0.5C	
	Efficiency	≥90% (25℃)					
	Cell Type	GSP71173204F-314Ah, 3.2V					
	Cycles	≥8000 (25℃, 0.5C,EOL70%)					
	System Configurati on	2*260S×1	2×260S×2	2×260S×3	2P260S×4	260S×2	260S×2×2
	Pack Configurati on	1P65S*4					
Enviromen tal Parameter	Dimensions (W*D*H)	PCS Cabinet: 1050×1100×1800 (1900) , Battery Cabinet: 1175×1500×2500 (< 2500)					
	Weight kg	PCS Cabinet: 125kw≈505、250kw≈570、375kw≈650、500kw≈720, Battery Cabinet: ≈4430					
	Noise	≤75dB					
	IP Rate	IP54					
	Altitude	≤2000m					
	Ambient Tep	Charge: 0~55℃, Discharge: -20~55℃					
	RH	0~85%					
Communic ation	Cooling Method	Liquid Cooling					
	Port Protocol	LAN/RS485 ModbusTCP					

BESS+N Application Scenarios



Product Features:

- Integrated with MPPT module / transformer / STS / maintenance bypass
- Supports 100% unbalanced load
- Supports grid-connected and off-grid operation with integration of PV, energy storage, and diesel generator

Application Scenarios:

- Off-grid mining sites, off-grid islands, nomadic farms, villages without electricity.

Product Features:

- Integrated PCS and AC Power
- Distribution System
- Centralized and efficient management via intelligent EMS
- System efficiency $\geq 90\%$

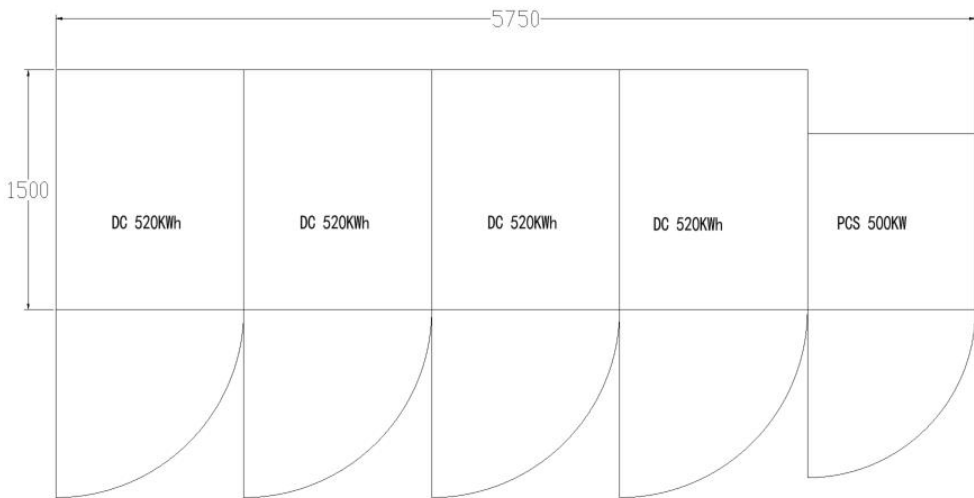
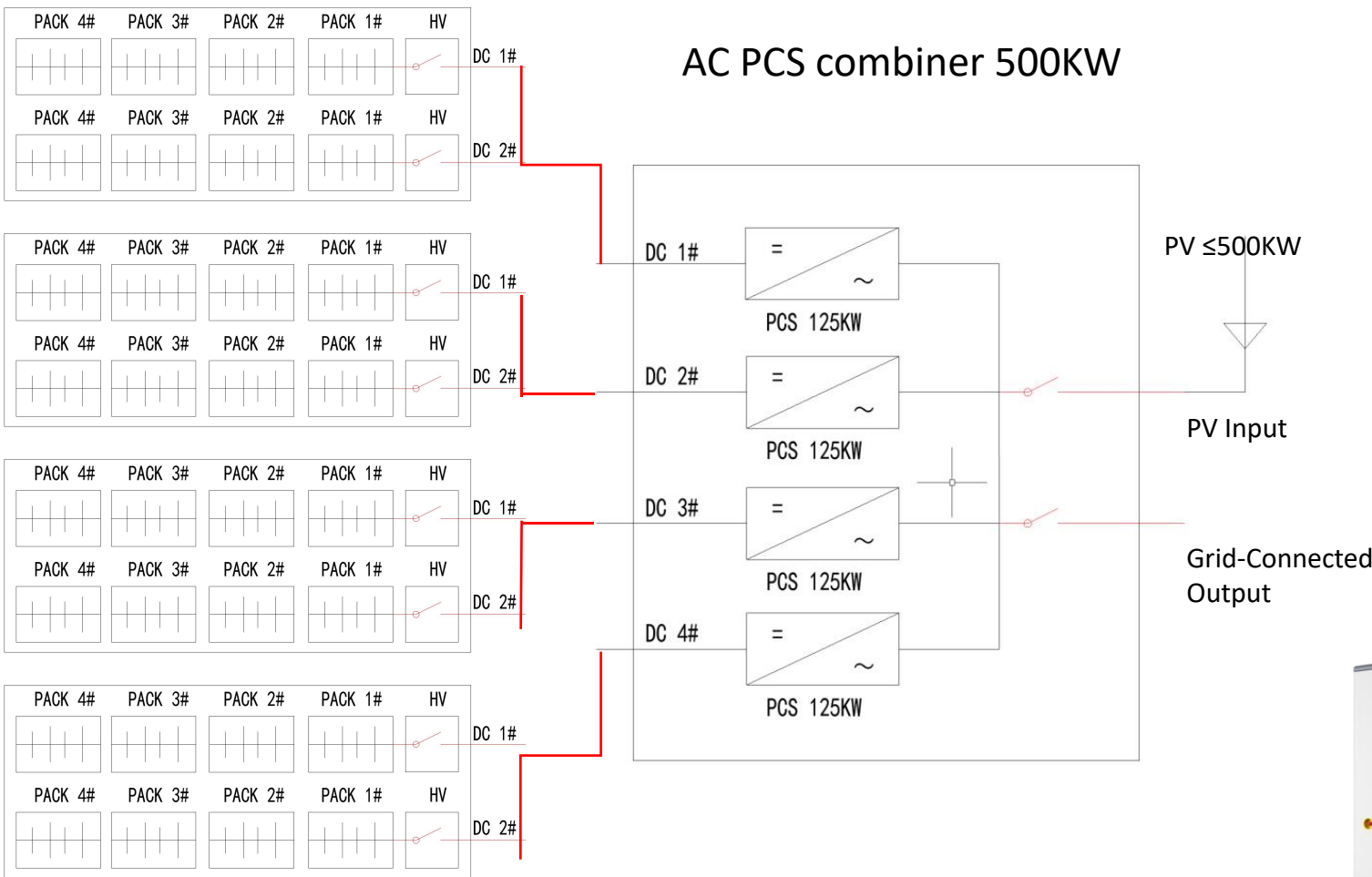
Application Scenarios:

Peak-valley arbitrage, demand charge management, dynamic capacity expansion, emergency backup power.

Scenarios for Grid-Connected

0.25P Grid-Connected Scenarios

DC 520KWh DC Block

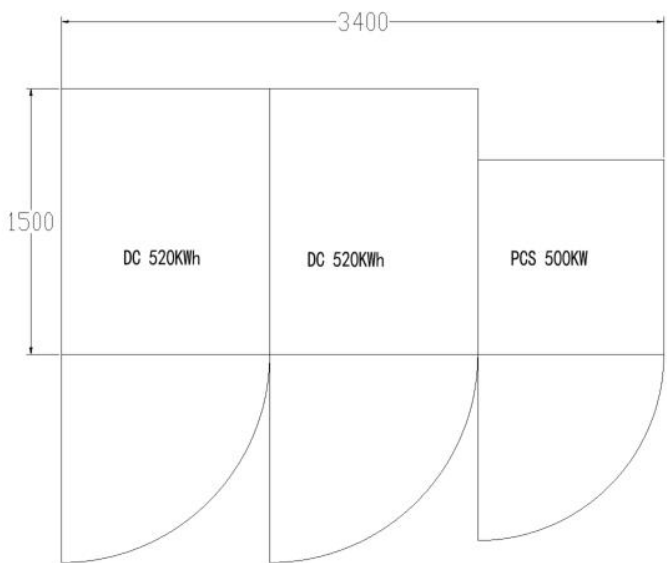
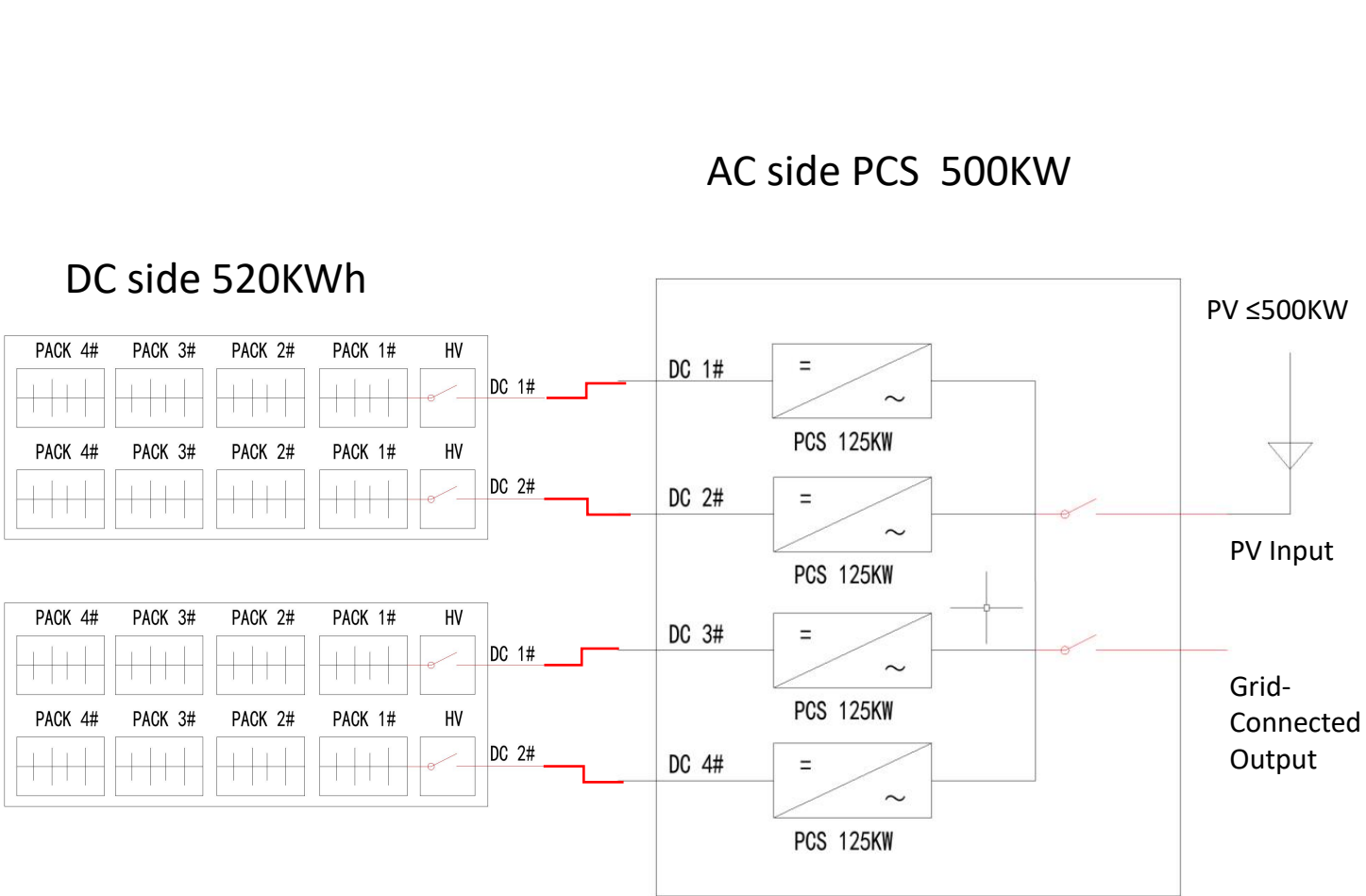


Layout



The PCS combiner cabinet can be configured with 1 to 4 groups of 125 kW PCS units, corresponding to 1 to 4 DC cabinets. It can be combined into the following four 0.5P grid-connected scenarios: 125kw/520kwh、250kw/1040kwh、375kw/1560kwh、520kw/2080kwh

0.5P Grid-Connected Scenarios



Layout



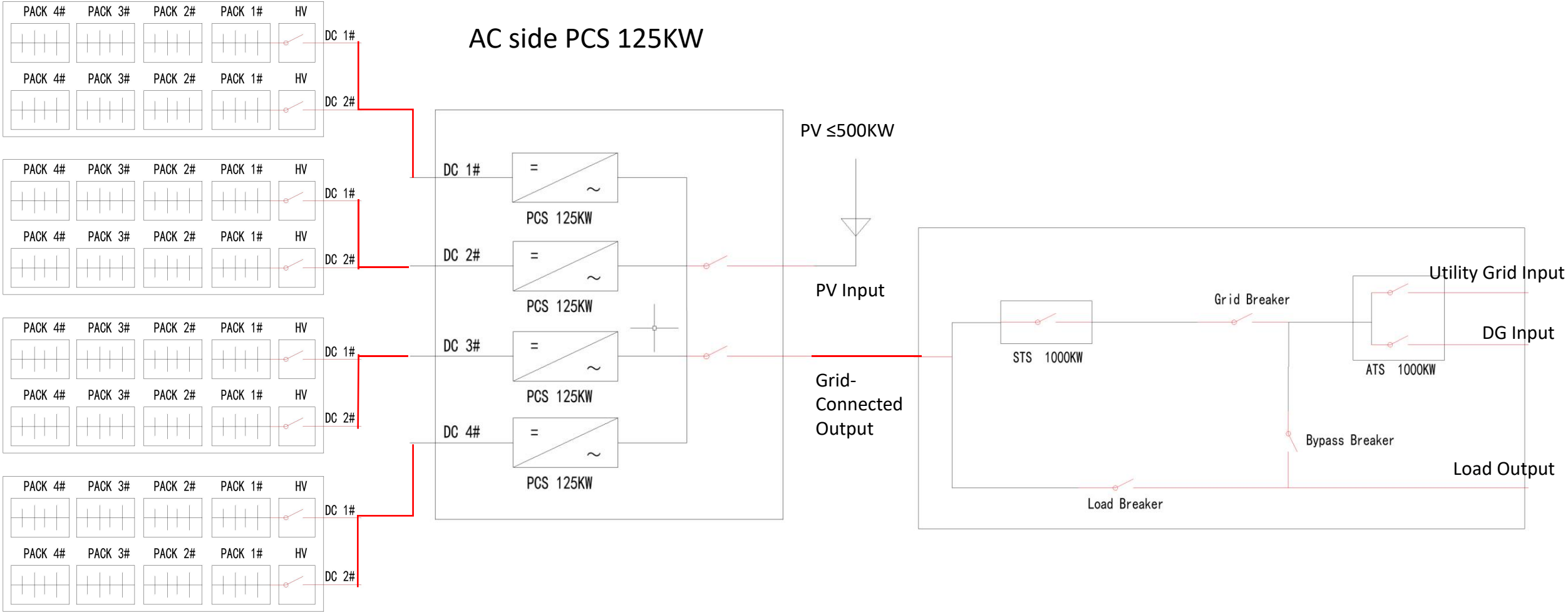
The PCS combiner cabinet can be configured with 2 or 4 sets of 125 kW PCS, corresponding to 1 to 2 DC cabinets. It can be combined into the following two 0.5P grid- connected scenarios: 250 kW / 520 kWh, 500 kW / 1080 kWh



Scenarios for Grid-Connected/ Off-Grid Applications

0.25P Scenarios for Grid-Connected/Off-Grid Applications

DC side 520KWh

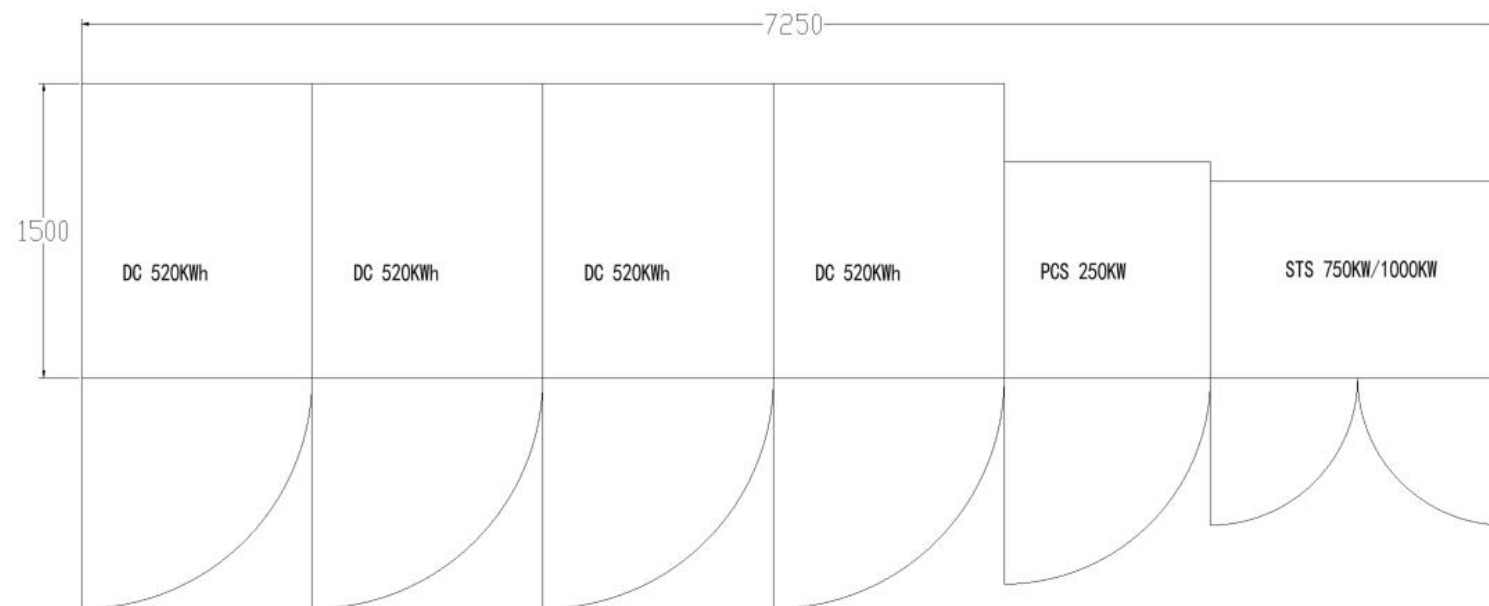


0.25P Scenarios for Grid-Connected/Off-Grid Applications

The PCS combiner cabinet can be configured with 1 to 4 sets of 125 kW PCS units, corresponding to 1 to 4 DC cabinets, along with STS units of different specifications.

This allows for four scalable 0.5P grid-connected/off-grid scenarios:

125kw/520kwh、250kw/1040kwh、
375kw/1560kwh、520kw/2080kwh



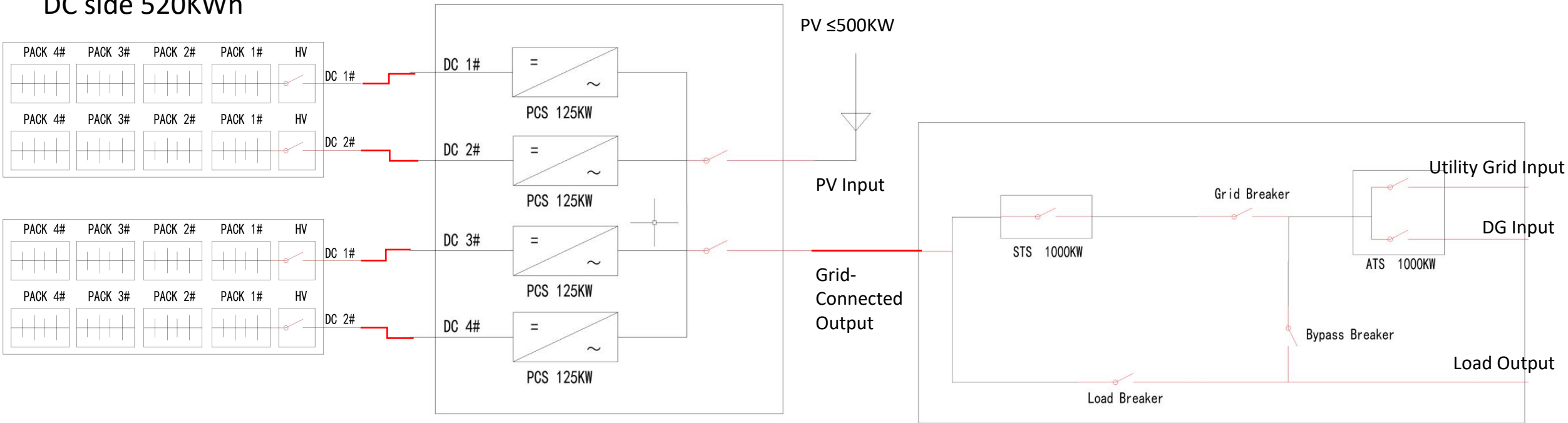
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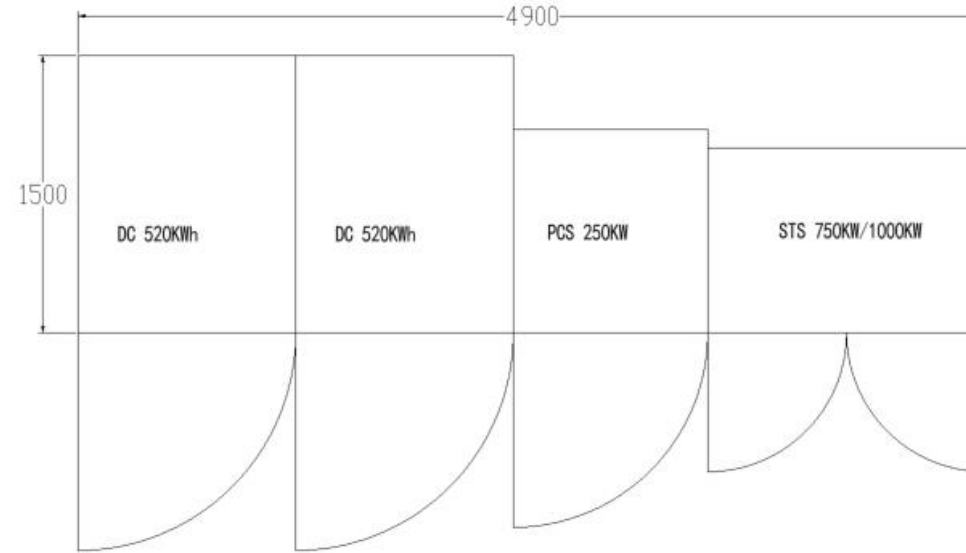
0.5P Scenarios for Grid-Connected/Off-Grid Applications

AC side PCS 125KW

DC side 520KWh



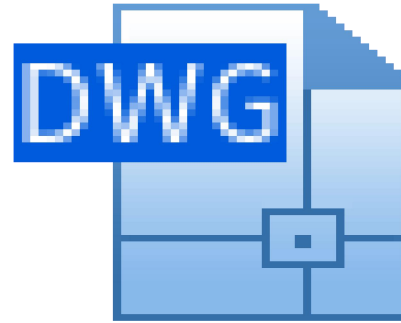
0.5P Scenarios for Grid-Connected/Off-Grid Applications



The PCS combiner cabinet can be configured with 2 or 4 sets of 125 kW PCS units, corresponding to 1 to 2 DC cabinets, along with STS units of different specifications. This allows for two scalable 0.5P grid-connected/off-grid scenarios:
250kw/520kwh, 500kw/1080kwh

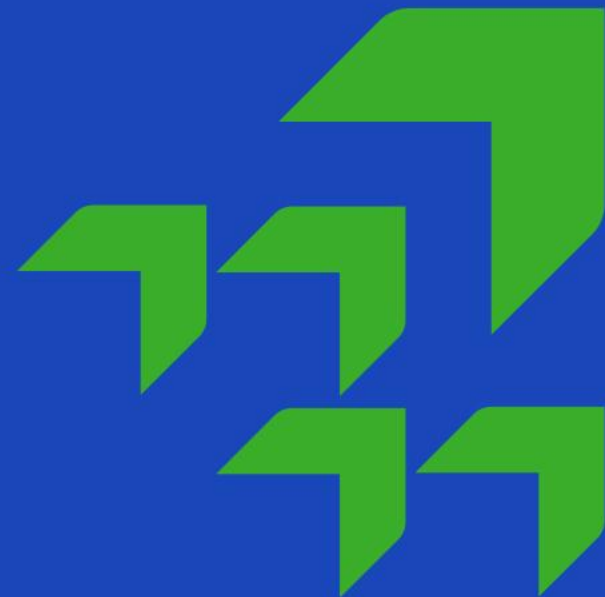
Layout





Product
Roadmap-A00

Thanks



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Sreach:Great Power

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