



Zhuhai Sinopak Electric Ltd.

Concise And Integrated High Voltage Variable Frequency Drive

Concise But Not Simple, One-stop Service For All You Needs!



Concise
But Not Simple

Highly integrated: scientific design achieves more space

Fast installation: installation is completed once devices are in-place, simplifying the construction works

Customization: the overall solution of VFD with the customer oriented

High adaptability: widely employed in some applications of limited space, urgent operation demanded, harsh environment and customization

High return: much shorter construction time, lower overall investment and fast benefit

TECHNICAL DATA

Voltage	6kV series	10kV series
Output capacity range	200-5000kVA	200-9500kVA
Protection rating	IP54	
Cooling method	<input type="checkbox"/> open type <input type="checkbox"/> air condition <input type="checkbox"/> air-water <input type="checkbox"/> liquid (optional)	
Bask-proof design	<input type="checkbox"/> heat-insulated rock wool <input type="checkbox"/> bask-proof and heat-isolated plate <input type="checkbox"/> fluorine carbon coating (optional)	
Moisture-proof design	<input type="checkbox"/> heating device <input type="checkbox"/> dehumidification device (optional)	
Rain-proof design	<input type="checkbox"/> rain-proof tent	
Anti-corrosion design	<input type="checkbox"/> C3:cleaned <input type="checkbox"/> C4:normal <input type="checkbox"/> C5-I:coastal <input type="checkbox"/> C5-M:marine (optional)	

Note: * all parameters can be customized design according to users' demand. Other basic parameters please refer to Sinopak general inverter brochures.

ADVANTAGES

1 Highly Integrated

- VFD room, VFD, HVAC facilities, lighting and fire-fighting devices are all integrated
- 40% higher of space utilization efficiency



2 High capability

- High IP protection rating
- Suitable for harsh conditions including high humidity, cold alpine, strong windy and dusty, strong corrosive environment etc
- Integrated HVAC system, reduces the requirements of external environment



3 Fast installation

- No VFD room, HVAC construction and on-site assembly needed
- Devices are all assembled and debugged in the manufacturing plant; only infrastructure needed for on-site work
- Installation is completed once devices are in-place, one-stop completing the installation work of transportation, storage and on-site assembly
- Saving over 75% construction time

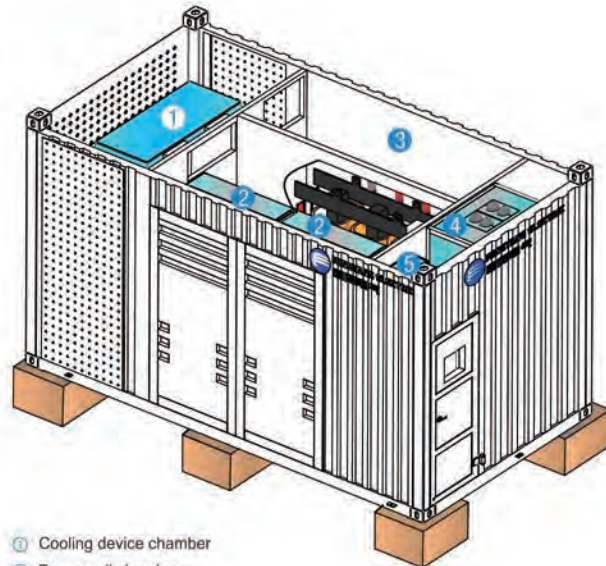


4 High profitability

- Reducing the design and construction cost for civil engineering, HVAC system
- Reducing the total utilization of HV/LV cables
- Simpler construction procedure greatly reduces the construction time



STRUCTURE



- ① Cooling device chamber
- ② Power cell chamber
- ③ Transformer chamber
- ④ Control chamber
- ⑤ Bypass chamber
- ⑥ Others: lighting/fire-fighting/power distribution system

INVESTMENT ANALYSIS

Compared projects	Working Hours (days)		Budget (ten thousands RMB)	
	Conventional scheme	Sinopak concise scheme	Conventional scheme	Sinopak concise scheme
Civil design and construction	30	5	17	3
HVAC design and construction	3	0	6	0
Device being moved in place	2	0.5	2	0.5
Cable connection check	2	0.5	/	/
Amount of primary cable	/	/	5	1.5
Device testing and debugging	3	1	/	/
VFD	/	/	30	45
Total	40	7	60	50

Sinopak concise and integrated scheme can reduce the construction time by 75% and decreases the overall cost by 15%. Note: Above table is generated by using 10kV/1000kVa VFD as an example.

DIMENSIONS

Voltage (kV)	Motor power (kW)	Converter capacity (kVA)	Overall dimension (W×D×H mm)	Weight (t)
6kV	190-500	236-630	5000×2438×2896	17-19
	530-1900	670-2360	5500×2438×2896	19-21
	2000-2500	2500-3150	5900×2438×2896	21-23
	2650-4000	3350-5000	6500×2438×2896	23-25
10kV	190-1800	236-2240	5500×2438×2896	20-22
	1900-3150	2360-4000	5900×2438×2896	22-25
	3350-4250	4250-5300	6500×2438×2896	25-28
	4500-6000	5600-7500	7100×2438×2896	28-30



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