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高压SVG

NO.	TECHNICAL NAME		TECHNICAL SPECIFICATIONS
1	BASIC INFORMATION	PRODUCT NAME	High voltage reactive power compensation device
2		SPECIFICATION/CAPACITY	100kvar ~ 25Mvar (supporting modular expansion)
3		OPERATING VOLTAGE	According to customer requirements, choose: 1. 6kV 2. 10kV
4		POWER FACTOR	-1 ~ +1
5		OPERATING FREQUENCY	50/60Hz±5%
6		ELECTRICAL METHOD	According to customer requirements, choose: 1. Delta (△) connection 2. Star (Y) connection
7		WIRING METHOD	3-phase 3-wire system
8	PERFORMANCE PARAMETERS	CURRENT SAMPLING	5A (CT:100/5 ~ 10000/5)
9		SAMPLING CURRENT POSITION	grid side
10		CASCADING H-BRIDGE CONNECTION (TOPOLOGY)	11-level design (5 units cascaded per phase), customizable according to network outage conditions.
11		NUMBER OF PARALLEL-CONNECTABLE UNITS	Ring network
12		COOLING METHOD	According to customer requirements, choose: 1. Natural air cooling 2. Forced air cooling

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13		OUTPUT CURRENT HARMONIC DISTORTION (THD)	≤3%； Compatible with PWM modulation filtering.
14		DYNAMIC RESPONSE CAPABILITY	Response time (capacitive and inductive: 0~25M) ≤5ms; real-time compensation can be up to ≤10ms
15		REACTIVE POWER REGULATION RANGE	Continuous output with smooth switching, ranging from capacitive rated reactive power to inductive rated reactive power.
16		POWER FACTOR (COMPENSATION ACCURACY)	≥0.99
17		EFFICIENCY (UNDER RATED OPERATING CONDITIONS)	≥99%
18		OVERLOAD TOLERANCE	1.2 times the rated capacity, with continuous operation for ≥1 minute.
19		PROTECTION FUNCTION	Through system self-diagnosis, it features over-voltage protection, under-voltage protection, frequency abnormality protection, over-temperature protection, over-current protection, short circuit protection, phase loss protection, DC bus over-voltage protection, DC bus under-voltage protection, IGBT fault protection, inverter bridge reverse protection, etc.
20		CONTROL FUNCTION	According to customer requirements, choose: 1. Reactive power compensation 2. Voltage compensation 3. Harmonic compensation 4. Unbalance compensation 5. Flicker suppression
21		REDUNDANCY DESIGN	Support modular N+1 redundancy for power units
22	STRUCTURE AND ENVIRONMENT	INSTALLATION TYPE	Directly connected (directly integrated into the power grid)
23		HUMAN-MACHINE INTERFACE	According to customer requirements, choose: 1. Real-time waveform recording and fault waveform recording function. 2. 16-channel oscilloscope function. 3. Phase sequence adaptive function.
24		COMMUNICATION PORT	RS 485, CAN, Ethernet, GPRS
25		COMMUNICATION PROTOCOL	Modbus-RTU, Profibus, CDT91, IEC104
26		COMMUNICATION CONFIGURATION	High-speed fiber optic
27		MONITOR	According to customer requirements, choose between: 1. Independent monitoring of each module; 2. Centralized monitoring of all modules.
28		OPERATING TEMPERATURE	-10℃ ~ +40℃

29		AMBIENT TEMPERATURE	-20℃ ~ +45℃
30		RELATIVE HUMIDITY	Maximum 95%, no condensation, no dew formation.
31		ALTITUDE	≤1000m, customization required for exceeding the limit
32		MACHINE BODY SHELL	According to customer requirements, select or customize other grades: 1. Indoor type 2. Outdoor type; support IP54 protection level and seismic design.
33		SIZE	Depending on the installed capacity, for example, 10Mvar; approximately 4000*1400*2400mm
34		WEIGHT	Depending on the installed capacity, for example, 10Mvar; approximately 3000kg
35	EXECUTION STANDARD	WIND POWER LOAD	GB/T 19963-2011
36		PHOTOVOLTAIC LOAD	GB/T 19964-2012