
SPSCAP
supreme power

CHAPTER ONE

State of the Art

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SUPREME POWER SOLUTIONS

SPSCAP

ONE OF THE GOLBAL LEADERS IN ULTRACAPACITOR BASED ENERGY STORAGE COMPONENTS AND SYSTEMS.

2 HEADQUARTERS

4 R&D CENTERS

2 MANUFACTURING CENTERS

500+ Employees

300+ National & international patents

SPSCAP SUPREME POWER SOLUTIONS

SPSCAP Locations

Beijing

Munich

Ningbo

Changzhou

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SPSCAP – Supreme Power

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SPSCAP
Energy Storage Systems

SPSCAP Products

Ultracapacitors (EDLC)	Organic series EDLC (Cells & Modules)	Cells Voltage 2.7 - 3.0V
Hybrid capacitors	Battery Capacitor (Cells & Modules)	Cells Voltage 2.2 – 3.8V
Energy Storage System (ESS)	EDLC ESS	
	Battery ESS	
	Hybrid ESS	

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Current EDLC-Cells - Standard

SERIES	SCE	SCP
PARAMETERS	2.7V - 3V 100F - 800F	2.7V - 3V 650F – 5,000F

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Current EDLC Modules - Standard

SERIES	MCE	MCP	High Voltage
PARAMETERS	15 - 160V 5.8 - 60F	5 - 200V 55 - 500F	200 - 1600V

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Current Hybrid Capacitor

SERIES	Hybrid Capacitor
PARAMETERS	3.6V Up to 60,000F
APPLICATION	• Mass transportation • Smart grid • Heavy duty machinery • High power supply

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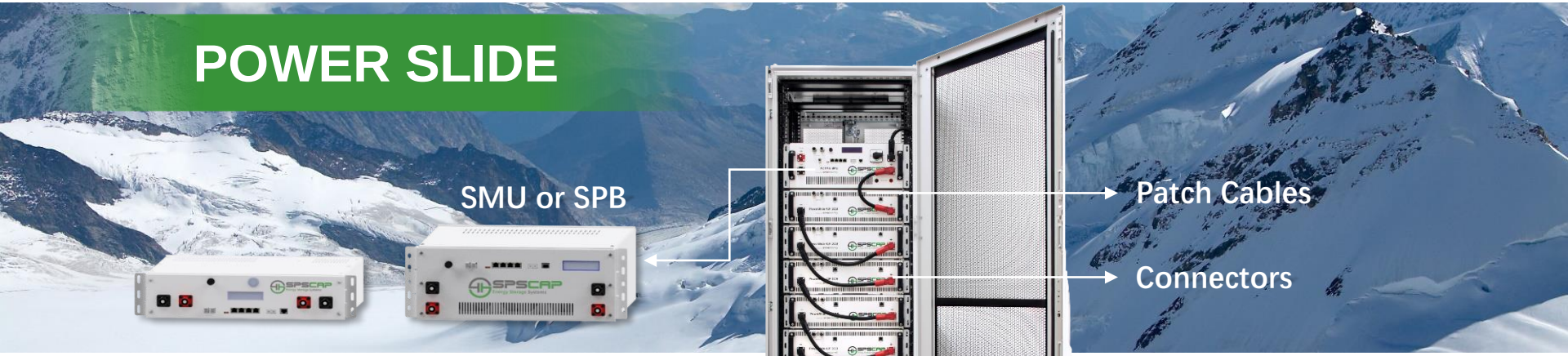
Current Energy Storage System

POWER SLIDE



- Configurable stack voltages and performance
- Active or passive connection
- Integrated energy management
- Optional hybrid system with batteries

PowerSlide Module

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CHAPTER TWO

Future Trends

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1. Standardisation & Modularisation

Harmonizing the sizes, shapes and interfaces

Keeping the variants while reducing the complexities

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The Answer of SPSCAP

Different capacities @ same Terminals

High cost efficiency @ high volume standard products

Full flexibility & quick reaction @ customer orientation

→ The SPSCAP SCE-SPD or SCP-WLH series

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2. Energy Density

Increasing voltage and capacitance

Concentrating on products innovation

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The Answer of SPSCAP

60000F / 3.6V

hybrid capacitor

3000F /

2.7V EDLC

??

… coming

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3. Cell Management

Electrical Balancing

Mechanical & Thermal

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The Answer of SPSCAP

From active balancing to

dynamic cell balancing

From air cooling to

integrated liquid cooling

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4. Easy to use

Turn-key products and solutions

Integrated high-safety

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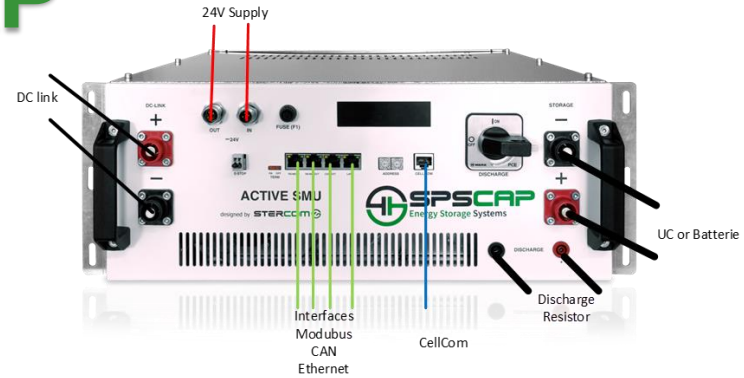
The Answer of SPSCAP



Integrated power management and periphery – turn-key solution from one hand

Safety features in details – high safety and reliability

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5. Positioning

Competition

Collaboration

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The Answer of SPSCAP

- Concentrate on tech. development and manufacturing
- Parallel OEM services for other UC brands
- Continuously enlarge the UC market
- Collaboration with battery manufactures on innovative products

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SPSCAP – always on the way

Tram line “Haizhu” in Guangzhou,

one of the numerous lines powered by SPSCAP internationally

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A Reliable Partner