DATA SHEET

GrapheneCBU

CBU 800

- Capacitor Bank Unit (CBU) for power smoothing, backup power, and other applications
- Integrated GaN DC/DC converter and battery management system (BMS)
- Available with 800 VDC or ± 400 VDC configurations
- 19” EIA/MGX-rack compatible, 4U high, modular design
- Liquid-cooled for high-power thermal performance
- Skeleton Technologies patented curved graphene energy storage technology

Electrical	Value	Unit
Nominal output voltage	800	V_{DC}
Operating voltage range *	540–880	V_{DC}
Rated current	300	A
Peak power	240	kW
Nominal power	160	kW
Nominal capacity	320	kJ

Mechanical	Value	Unit
Target installation	19	“ (EIA/MGX)
Height	176	mm
Width	448	mm
Cabinet depth	808	mm
Overall depth	899	mm
Weight	80	kg
Cooling type	Liquid	
Max. operating altitude	2000	m

Withdrawable supercapacitor trays for easy maintenance with minimum module downtime. Hot-swap-ready architecture.

Communication interface	
Communication interface	2x Ethernet
Main interface protocol	Redfish
Additional protocols or IOs	On request

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Block diagram

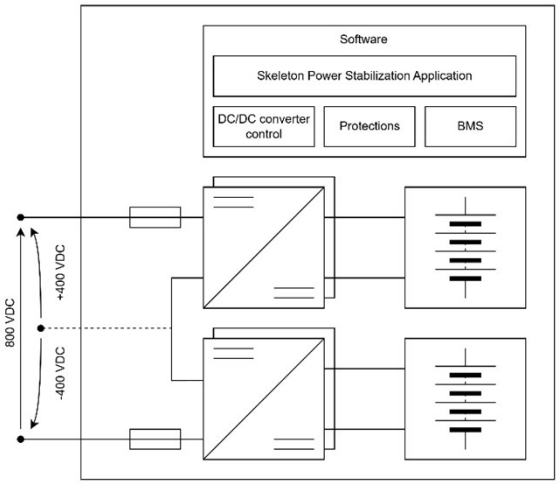

Figure 1 Device block diagram. There are two removable modules for ease of maintenance and flexibility for 800 or ± 400 VDC support.

Typical application

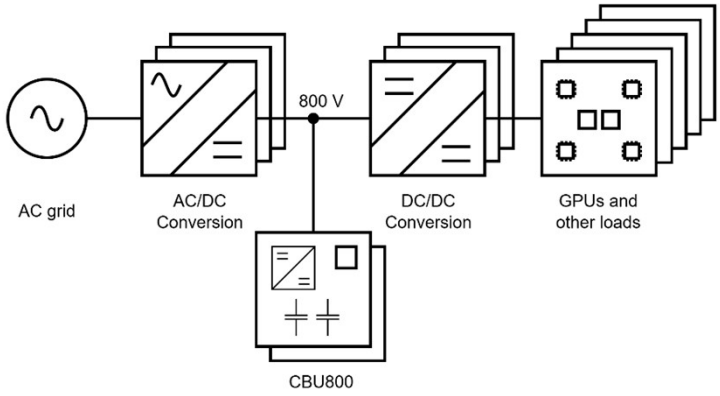

Figure 2. Typical datacenter application of CBU. Multiple CBU can be placed in parallel for higher performance.

Notes

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