

GrapheneGPU

PCS 50

- + Peak Shaving Capacitor Shelf (PCS)
- + 48 VDC interface voltage
- + 60 kW peak power
- + ORV3 compatible, 10U high
- + Air-cooled and liquid-cooled options available
- + Intelligent control and integrated BMS
- + Lithium-free supercapacitor energy storage based on Skeleton Technologies patented Curved Graphene technology



General Specifications

Electrical

	Value	Unit
Nominal output voltage	48	V (DC)
Output voltage operating area	43 – 56	V
Output peak current	1250	A
Continuous output current (cooling type tbd)	830	A
Continuous output power	40	kW
Peak output power	60	kW
Usable capacity At continuous (rated) current	100	kJ
Peak efficiency	98	%
Energy storage max. voltage	96	V

Dynamic Performance

	Value	Unit
Current slew rate	20	A/μs
DC/DC switching frequency	500	kHz

Standards and Approvals

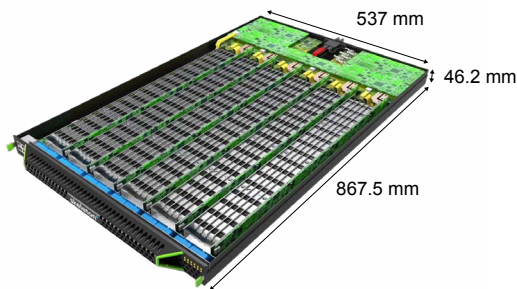
UL810A
UL9540A
IEC 62368-1
EN 61000-6-2
EN 61000-6-4
EN 60068-2-6
EN 60068-2-27

Communication Interfaces

Communication interfaces	2x Ethernet 1x CAN or 1x RS-485 (selectable hardware option)
Ethernet protocols	Modbus TCP Redfish*
CAN protocols	Custom**
RS-485 protocols	Modbus RTU
I/O	4x Analog input 0-10 V 1x Analog output, open collector 2x Digital input
Other communications	Sync link for parallel operation of PCS units IShare

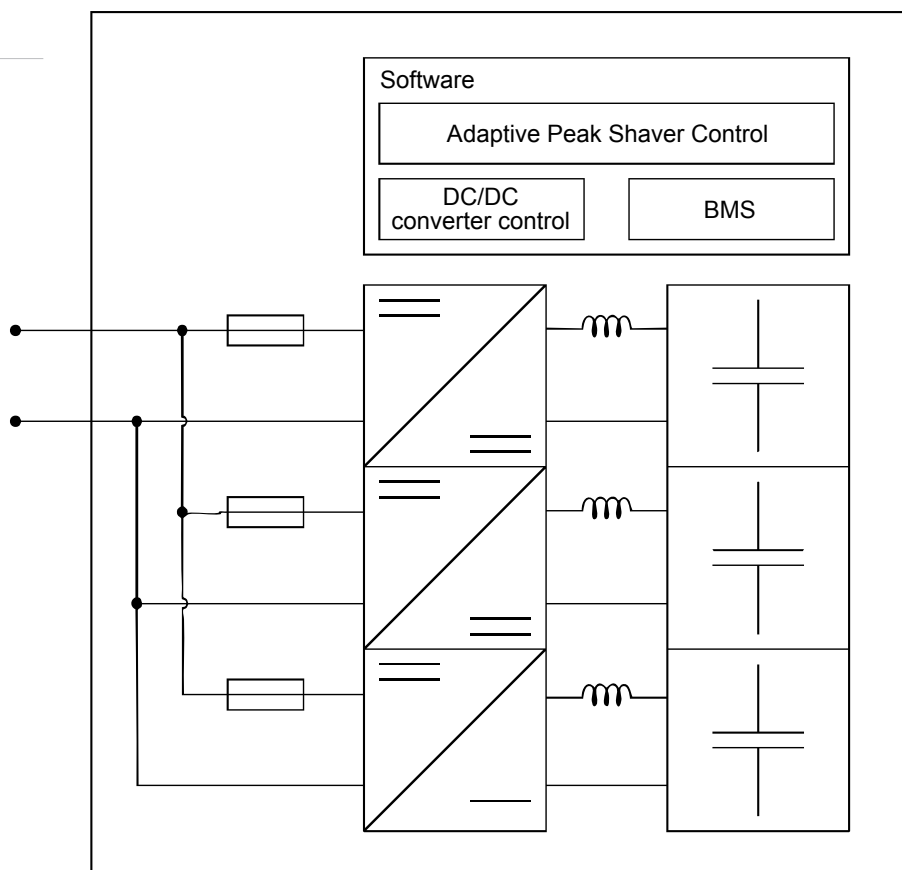
Physical Parameters

	Value	Unit
Target installation	21" ORV3	
Weight	20	kg
Dimensions, L x W x H	867.5 x 537 x 46.2	mm
Height	1	OU

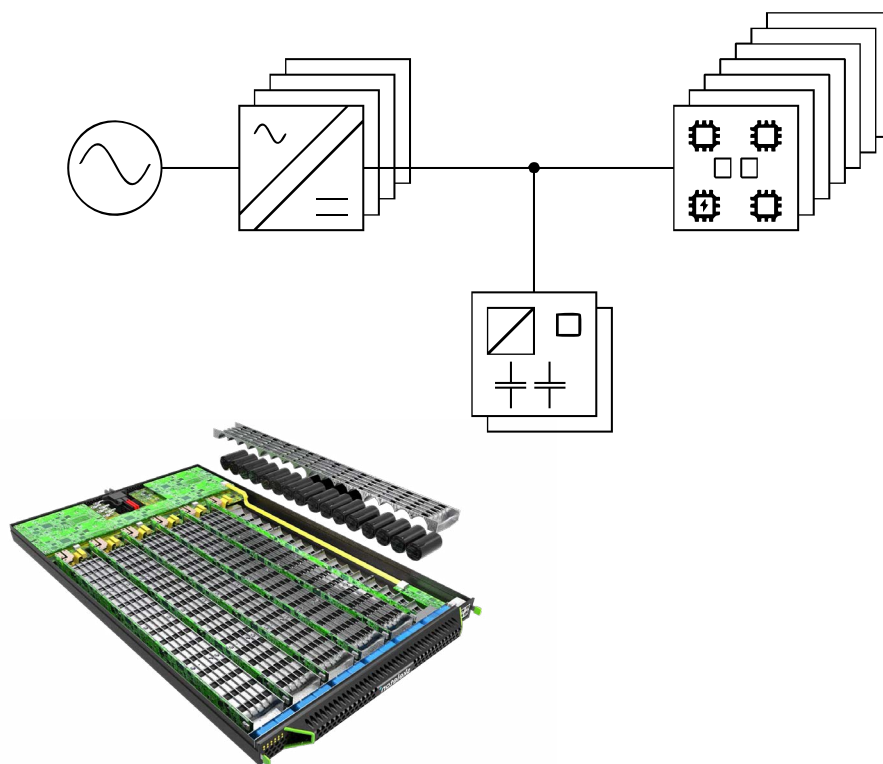


*Planned; **Customer-specific development as agreed
All information is preliminary and subject to change without prior notice.

Block Diagram



Typical Application



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