

MOOG ENERGY STORAGE UNIT

ESU-C



The energy storage unit ESU-C is a compact DC bus buffer for storing and retrieving power peaks. The unit absorbs regenerative power from the inverters, which is generated during braking of servo motors or fluid decompression via EPU axes. This avoids the dissipation of regenerative energy via clamping resistors and greatly increases efficiency. Furthermore, the peak power demand of the infeed is considerably reduced and thus the connected load of the machine is significantly reduced (*peak shaving*).



Specified Features

- Highest power density
- Up to 250,000 operation hours
- Integrated quick discharge
- Protected DC bus connection
- Integrated pre-charge
- Protection class IP20 (finger safe)
- Analog voltage display
- UL compliant according to UL61800-5-1

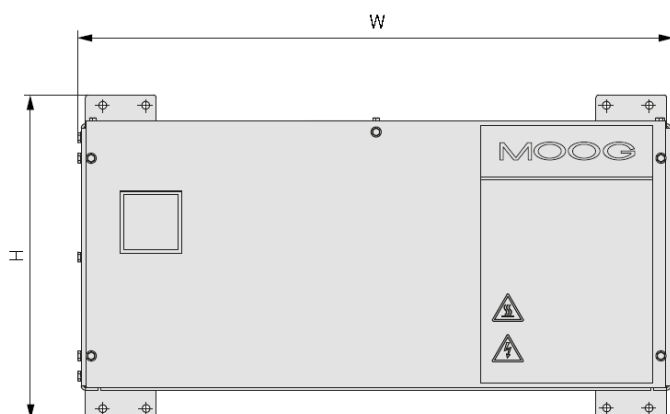
Size	Rated capacity	Ordering number with pre-charge circuit
S	58 mF	CD24601-058-001
M	87 mF	CD24601-087-001
L	131 mF	CD24601-131-001

Technical Datas

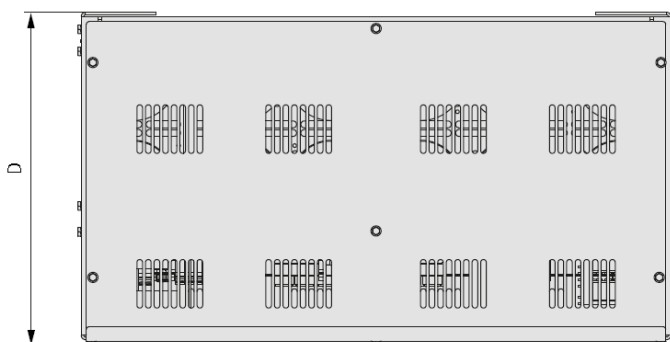
Mechanical data/Assembly instructions	Size S	Size M	Size L
Size W (width)/H (height)/D (depth) [mm (in)]	424 x 377 x 388 (16.69 x 14.84 x 15.28)	694 x 377 x 388 (27.32 x 14.84 x 15.28)	1023 x 377 x 488 (40.28 x 14.84 x 15.28)
Weight [kg (lb)]	approx. 50 (110.23)	approx. 70 (154.32)	approx. 105 (231.49)
Installation	Only horizontal installation permitted		
Cooling method	Convection		
Spacing	Above and below the energy storage unit: 100 mm (3.94 in) The ventilation holes on the top and bottom must not be covered!		
Protection class	IP 20 (when fully and correctly mounted and connected)		

Technical Data			
Peak current	800 A	1200 A	1800 A
Voltage range	0 - 900 V		
Peak performance	720 kW	1080 kW	1620 kW

Front



Top



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Capacitor Bank ESU-C
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This technical data is based on current available information and is subject to change at any time. Specifications for specific systems or applications may vary.

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