

DURACELL®

SOLAR SOLUTIONS

STACKABLE BATTERY SYSTEM

Low voltage battery

DS-BSL08 SERIES



CHARACTERISTICS

Modular system for energy storage
Nominal capacity: 5.1 kWh - 20.4 kWh
Low voltage battery designed for connection
with Duracell hybrid inverters

Product Name Code (PNC): DS-BSL08-5.1K |
DS-BSH08-10.2K | DS-BSH08-12.8K |
DS-BSH08-15.3K | DS-BSH08-17.9K | DS-BSH08-20.4k
Battery Accessories: DS-BAB08-L
(DURACELL Low Voltage Stackable Battery Base plate)

Stackable and Expandable up to 20.4 kWh
(supporting upto 4 modules)

Low self & standby consumption | Enhanced SOC
measurement accuracy for optimal battery management



SAFE & USER-FRIENDLY

Designed in accordance with global safety standards |
Integrated fire suppression system | Smarter & Safer BMS
for precise diagnostics | IP65 rated design | Integrated
MOSFET and dual fuse protection for superior safety
and reliability | Elegant design with concealed cable
management | Compact, lightweight modules for
easier handling and installation

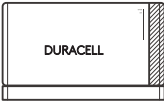
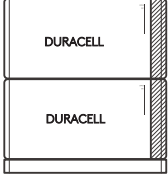
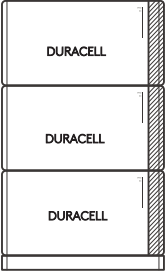
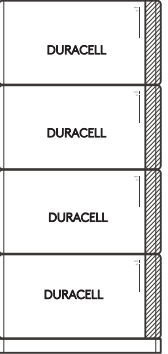


10 YEARS WARRANTY

Full warranty terms: www.duracellsolarsolutions.com



Technical Datasheet

Battery module		DS-BML08-5.1K				
		DS-BSL08-5.1K	DS-BSL08-10.2K	DS-BSL08-15.3K	DS-BSL08-20.4K	
Module number						
	Cell type	LiFePO4				
	Rated capacity	100 Ah				
	Nominal energy ¹	5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh	
Usable energy ²	4.86 kWh	9.72 kWh	14.59 kWh	19.45 kWh		
Nominal battery voltage	51.2 V					
Battery voltage range	40 V ~ 58.4 V					
Recommended charge / discharge current	60 A	120 A	180 A	210 A		
Max. charge / discharge current	100 A	200 A	210 A	210 A		
Rated charge / discharge power	3.07 kW	6.14 kW	9.22 kW	10.75 kW		
Max. charge / discharge power	5.12 kW	10.24 kW	10.75 kW	10.75 kW		
System Data	Dimensions (W * D * H)	630 * 185 * 320 mm	630 * 185 * 640 mm	630 * 185 * 960 mm	630 * 185 * 1280 mm	
	Module weight	46.0 kg	92.0 kg	138.0 kg	184.0 kg	
	Base weight	2.6 kg				
	Installation location	Indoor / Outdoor				
	Mounting method	Floor mounted / Wall mounted				
	Operating temperature range	Charging : -8 °C ~ 58°C Discharging : -18 °C ~ 58°C				
	Storage temperature range	-20°C ~ 60°C				
	Cooling concept	Natural convection				
	Protective class	II				
	Degree of protection	IP66				
	Relative humidity	5 % ~ 95 % RH, non-condensing				
	Max. operating altitude	4000 m (> 3000 m derating)				
	Communication	CAN				
	General Data	Certification	IEC 62619, IEC 62040, IEC 62477, IEC 63056, IEC 61000			
		Life cycle ³	6000 times			
Round-trip efficiency		≥ 95 %				

Version: 2025.02.V1-EN

1. Nominal energy is defined under the following conditions: battery voltage 40 ~ 58.4V, 0.5C charge & discharge at +25 °C
2. Usable energy is defined under the following conditions: 0.5C charge & discharge at +25°C, 95 % DOD
3. Life cycle is defined under the following conditions: 0.5C charge & discharge at 25 °C (One cycle a day) 90 % DOD, 70 % EOL

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