

C&I ENERGY STORAGE

DC Battery System

DS-BSC05-500



CHARACTERISTICS

DC Battery System Rated power 500 kW



IN A NUTSHELL

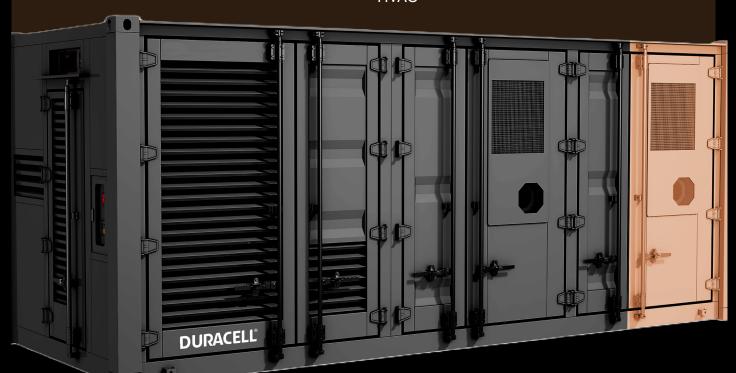
Flexibly adjusts energy storage

Built-in intelligent battery management system (BMS)

Active Balance, Alarm Management, Current Leakage detection, Insulation detection

IP54 protection

Highly efficient cooling concept with HVAC





PRODUCT SERIES

DURACELL COMMERCIAL / INDUSTRIAL ENERGY STORAGE

DC BATTERY SYSTEM

ELECTRICAL CHARACTERISTICS			
Model: DS-BSC05-xxx		552000	
Battery type	L	Lithium Iron Phosphate (LFP)	
Rated Energy capacity	[kWh]	552	
DC Rated Energy capacity	[kWh]	552.96	
DC Rated voltage	[V]	768	
DC Voltage range (usable)	[V]	672-852	
Charge / Discharge current (max)	[A]	823.4	
Charge / Discharge rate	[C]	1	
Cell Specification	[V/Ah]	3.2 / 90	
Number of Strings		4	
String Configuration		2P240S	
BMS Communication Interface		RS485, Ethernet	
BMS Communication Protocol		Modbus RTU, Modbus TCP	
Maximum System Efficiency (η)	[%]	88.1	
Depth of Discharge (DOD)	[%]	100	

OPERATING CONDITIONS			
Operating temperature	[°C]	-20 to 40	
Storage temperature (Short term)	[°C]	-20 to 55 (For: 1 month)	
Storage temperature (Long term)	[°C]	0 to 35 (For: 1 Year)	
Humidity conditions	[%]	0 to 95 (non-condensing)	
Altitude		2000m /6500feet (non-derating)	
Fire fighting system		FK-5-1-12	
Cooling concept of DC hatch		HVAC	

AC DATA			
Rated AC Power	[kW]	500	
Maximum AC Power	[kW]	550	
Rated voltage	[V]	400	
Voltage range (Grid)	[V]	342-418 (Configurable)	
AC rate of current	[A]	721.7	
Output THDi	[%]	<3	
AC PF	0.1-1	0.1-1 [(Leading or Lagging) (Controllable)]	
AC Output	3-PI	3-Phase 4-Wire + PE (With transformer)	

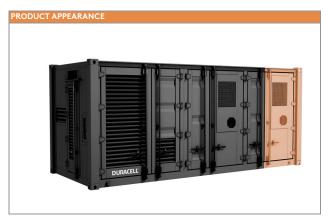
PRODUCT NAMECODE (PNC)

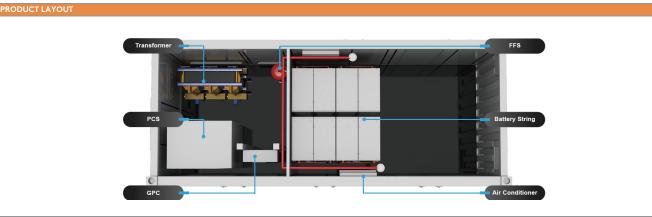
DS-BSC05-500

PHYSICAL CHARACTERISTICS		
Model: DS-BSC05->	xx	552000
Length	[mm]	6058
Width	[mm]	2438
Height	[mm]	2591
Weight	[tons]	14.7
Installation		Ground
Case		Carbon color

WARRANTY ¹	
Product and performance	5000 cycles (@ 1C and 25 °C)

RELIABILITY AND CERTIFICATION	
System Certification	UL 9540 CE (EMC) CE (LVD)
Battery Cluster certification	IEC 62619, EN 62477-1, UL 1973, UL 9540A
Transportation	UN 3536, UN 38.3
Protection class	IP54





NOTES

1- For the full Warranty Terms please visit www.duracellsolarsolutions.com

Dimensions in the technical picture are expressed in mm with tolerance 32 mm (30.079 ")

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CONTACT US:

info@duracellsolarsolutions.com www.duracellsolarsolutions.com