



Data Sheet

HELIOS CUBE Pre-assembled Battery System		MODEL
		BS4850-SH
CHARGE AND DISCHARGE DATA		
Rated voltage	Vdc	51.2
Recommended charge voltage	Vdc	56-57
Maximum charge voltage	Vdc	58.4
Under-voltage protection	Vdc	40
Maximum charge current	A	50
Recommended charge current	A	10-20
Maximum discharge current	A	60
Recommended discharge current	A	10-25
Depth of discharge	%	>90
BATTERY MODULE		
Chemistry		Lithium
Rated voltage	Vdc	51.2
Rated capacity (@25°C and >0.1C C/D power)	kWh	2.56
Usable capacity (@25°C and >0.1C C/D power)	kWh	2.3
Life cycle @DOD=90%		>4000
Operating temperature range	°C	0 - 45
Dimension (LxWxH)	mm	450x443.5x132.5
Weight	kg	32
Communication protocol		RS485, RS232
BATTERY CABIN		
Number of battery modules		7
Max. rated capacity (@25°C and >0.1C C/D power)	kWh	17.92
Max. usable capacity (@25°C and >0.1C C/D power)	kWh	16.13
Dimension (WxDxH)	mm	600/670/1380
Weight (excluding batteries)	kg	70
IP grade		IP65
Cooling		Natural air cooling
STANDARDS AND COMPLIANCE		
IEC/AS62040.1:2019, IEC 62619: 2017, IEC 60730-1:2013, IEC 60730-1:2013/AMD1:2015		
WARRANTY		
Limited warranty		5 years

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