

Durathon E620 电池模块技术规格 Battery Module Technical Specifications

Durathon E620电池是一个20 kWh的独立模块，自身集成了电池管理系统和保护功能，可被集成入储能系统。
The Durathon E620 Battery is a 20 kWh stand-alone module, integrated with its own Battery Management System and protective features, ready to be integrated into an Energy Storage System.

技术参数 Technical Data	数值 value	单位 units
最大功率 Maximum Power	10	kW
最大电流 Maximum Current	23	A
工作电压 Operating Voltages:		
最大充电电压 Maximum Recharge	577	V
开路电压 Open Circuit	557	V
放电终止电压 Discharge Termination	432	V
功率输出能力 Power Delivery Capacity:		
2 小时 hours	10	kW
3 小时 hours	6.7	kW
4 小时 hours	5	kW
5 小时 hours	4	kW
6 小时 hours	3.3	kW
最大长期充电功率Maximum Long Term Recharge Power Acceptance: ¹		
20% DOD	2	kW
50% DOD	6.5	kW
90% DOD	10	kW
充电时间 Recharge Times (from full DOD):		
100% 额定功率 Rated Power	8.4	h
75% 额定功率 Rated Power	8.4	h
50% 额定功率 Rated Power	8.8	h
25% 额定功率 Rated Power	11.7	h
交流往返效率 Round Trip AC Efficiency ²	85	%
基本参数 General Data	数值 value	单位 units
环境条件 Ambient Conditions	-40 to 65 -40 to 149	°C °F
海拔 Altitude ³	1,000	m
湿度 Humidity	<95%	RH
场地限制 Site Restrictions	Designed for indoor/outdoor installation	

¹ 长期的定义：大于前一次放电。
Long Term is defined as greater than previous discharge.

² 只适用于直流方案。交流往返效率为参考值；假定为典型的削峰填谷应用模式。
DC solutions only. AC roundtrip efficiency estimated; assumes typical peak shave application.

³ 无需降额。额外工作范围可行。
Without derating. Additional operating range is possible.

基本参数 General Data	数值 value	单位 units
寿命 Life:		
循环寿命 Cycle Life	4,500	cycles
浮充寿命 Float Life	15	years
尺寸 Dimensions ⁴		
外观高度 Overall Height	320 12.6	mm in
外观宽度 Overall Width	550 21.7	mm in
外观长度 Overall Length	950 37.4	mm in
质量 Weight	245 540	kg lb
接口 Interconnect:		
电池端子 Battery Terminals	Two pole quick connect	
通信 Communication	Modbus TCP/IP	
加热功率需求 Warm-up Power Requirements ⁵	1.5	kW
辅助电源需求 Auxiliary Power Requirements ⁶	0	kVA
电气需求 Electrical Requirements	Grounded negative DC bus, Voltage ripple < 4 Vrms, External DC overcurrent protection	
认证（申请中） Certification (in progress)	UL 1973, ISTA 2B, CE Marking, UN 3292, EMC/FCC/CISPR 22 Class A Seismic Zone 4 Outdoor enclosure rating to NEMA 3R	

⁴ 标称尺寸。
Dimensions are nominal.

⁵ 直流母线所需功率。加热至工作温度所需时间大约为10-12小时。
Power from DC bus required. Warm-up period approximately 10-12 hours.

⁶ 系统辅助连接为 480 VAC 单相。
System auxiliary connection 480 VAC single phase. Circuit size = 10 amp.

参考图纸 Technical Drawings

从模块到机架再到系统，Durathone620电池模块的设计具有灵活性和扩展性。
From module to rack to system, the Durathon E620 Battery is designed for flexibility and expansion.



图1. Durathon E620 电池模块
Figure 1. Durathon E620 Battery



图2. Durathon 电池直流系统
Figure 2. Durathon Battery DC System



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Durathon MWh系列直流系统技术规格 DC System Technical Specifications – MWh Series

Durathon MWh系列直流系统产品基于一个或多个Durathon 1MWh电池柜，匹配一个Durathon接口柜，接口柜作为所有系统电源和通信连接的集线器。如需增加放电时间或存储能量，可并联增加1MWh电池柜的数量。以下列出的所有规格均同时反映了Durathon 1MWh电池柜以及其所附带Durathon接口柜的总体要求。

The Durathon DC System MWh Series is based on one or more 1 MWh Durathon Battery Enclosures paired with a Durathon Interface Enclosure, which acts as the hub for all system power and communications connections. To increase duration or energy capacity, the number of 1 MWh enclosures connected in parallel can be increased as needed. All specifications outlined below reflect the total requirements of both the 1 MWh Durathon Battery Enclosures and the accompanying Durathon Interface Enclosure.

技术参数 Technical Data	DC1 MWh	DC2 MWh	DC3 MWh	DC4 MWh	DC5 MWh	DC6 MWh	单位units
最大功率 Maximum Power	500	1,000	1,000	1,000	1,000	1,000	kW
最大电流 Maximum Current	1,150	2,300	2,300	2,300	2,300	2,300	A
工作电压 Operating Voltages:							
最大充电电压 Maximum Recharge	577						V
开路电压 Open Circuit	557						V
放电终止电压 Discharge Termination	432						V
功率输出能力 Power Delivery Capacity [†] :							
2 小时 hours	500	1,000	1,000	1,000	1,000	1,000	kW
3 小时 hours	333	667	1,000	1,000	1,000	1,000	kW
4 小时 hours	250	500	750	1,000	1,000	1,000	kW
5 小时 hours	200	400	600	800	1,000	1,000	kW
6 小时 hours	167	333	500	667	833	1,000	kW
最大长期充电功率Maximum Long Term [‡] Recharge Power Acceptance [‡] :							
20% DOD	100	200	300	400	500	600	kW
50% DOD	325	650	975	1,000	1,000	1,000	kW
90% DOD	500	1,000	1,000	1,000	1,000	1,000	kW
充电时间 Recharge Times (from full DOD) [‡] :							
100% Maximum Power	8.4	8.4	8.4	8.8	9.3	10.0	h
交流往返效率 Round Trip AC Efficiency ^{2†}	85						%
基本参数 General Data	DC1 MWh	DC2 MWh	DC3 MWh	DC4 MWh	DC5 MWh	DC6 MWh	units
工作温度 Operating Ambient Temperature	-40 to 50						°C
	-40 to 122						°F
海拔 Altitude ³	1,000						m
场地限制 Site Restrictions	Designed for indoor/outdoor installation						

[†] 数值基于产品生命周期的起始性能。

Values based on beginning of life performance.

[‡] 长期的定义：大于前一次放电。

Long Term is defined as greater than previous discharge.

² 只适用于直流方案。交流往返效率为参考值；假定为典型的消峰填谷应用模式。
DC solutions only. AC roundtrip efficiency estimated; assumes typical peak shave application.

³ 无需降额。额外工作范围可行。

Without derating. Additional operating range is possible.

基本参数 General Data		DC1 MWh	DC2 MWh	DC3 MWh	DC4 MWh	DC5 MWh	DC6 MWh	单位units
寿命 Life:								
循环寿命 Cycle Life	4,500							cycles
浮充寿命 Float Life	15							years
尺寸 Dimensions ⁴								
外观高度 Overall Height	2,355 93							mm in
外观长度 Overall Depth	2,161 85							mm in
外观宽度 Overall Width	4,563 180	8,351 329	12,140 478	15,927 627	19,716 776	23,504 925	mm in	
质量 Weight	19,170 42,263	37,070 81,725	52,970 121,188	72,870 160,651	90,770 200,114	108,670 239,576	kg lb	
接口 Interconnect:								
电池端子 Battery Terminals	Bus Bar							
通信 Communication	Modbus TCP/IP, EGD							
加热功率需求 Warm-up Power Requirements ⁵	75	150	225	300	375	450	kW	
辅助电源需求 Auxiliary Power Requirements ⁶	10	10	10	15	15	20	kVA	
电气需求 Electrical Requirements	Grounded negative DC bus, Voltage ripple < 4 Vrms, External AC and DC overcurrent protection and disconnect (customer provided)							
已完成认证 Certification: Complete (as appropriate per model)	CE Marking, EMC/FCC/CISPR 22 Class A UL 1973 Seismic Zone 4 Outdoor enclosure rating to NEMA 3R							

⁴ 标称尺寸。
Dimensions are nominal.

⁵ 直流母线所需功率。加热至工作温度所需时间大约为10-12小时。
Power from DC bus required. Warm-up period approximately 10-12 hours.

⁶ 系统辅助连接为 480 VAC 单相。电路尺寸=10安培。
System auxiliary connection 480 VAC single phase. Circuit size = 10 amp.

参考图纸 Technical Drawings

从模块到机架再到系统，Durathon620电池模块和直流系统的设计具有灵活性和扩展性。
From module to rack to system, the Durathon E620 Battery and DC System Series are designed for flexibility and expansion.



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