



System skladování energie obytných budov

Tří-fázový ESS iStorageE3 Series 5K~12K



Produktové vlastnosti



Nezávislost

- Vestavěná funkce EMS s více režimy provozu (dosahuje energetické nezávislosti)
- System nepřerušovaného napájení, doba splnění <10ms
- Silný záložní zdroj až 20kW



Bezpečnost

- Dvojitá izolace
- Modulární integrace požární ochrany
- Integrace funkce AFCI (volitelné)



Jednoduchost

- Konstrukce All-in-one
- Modulární instalace a snadná konektivita
- Možnost rozšíření na více baterií a více systémů



Inteligentní funkce Smart

- Monitoring v reálném čase, adaptivní správa SOC
- Správa baterií na úrovni sad článků, aktivní balancování při nabíjení a vybíjení
- Inteligentní správa energie s funkcí předpovědi počasí





Systemové specifikace

Items	iStorageE3 5K Series	iStorageE3 6K Series	iStorageE3 8K Series	iStorageE3 10K Series	iStorageE3 12K Series
System components					
Inverter model	iStorageE3 5K	iStorageE3 6K	iStorageE3 8K	iStorageE3 10K	iStorageE3 12K
Number of Inverter	1				
Battery system model	iStorageE B5-S2				
Number of battery module	1-8				
General					
Cell technology	LiFePO4				
System capacity	5-40kWh				
Rated system power	5kW	6kW	8kW	10kW	12kW
Dimension (W*H*D)	800*1995*240mm/31.49*78.54*9.45in (four battery modules, with foundation)				
Noise emission	<30dB				
Cooling type	Natural cooling				
Altitude	3000 m (Derating above 2000 m)				
Operating temperature	-20~50°C/-4~122°F				
Recommended operating temperature	15~30°C/59~86°F				
Operating humidity	0~100%RH				
Display	LED & APP				
Installation method	Floor or Wall-mounted (optional)				
Communication Interface	Portal-WiFi (standard)/4G (optional), Meter-RS485, EMS-RS485 (sunspec)				

Specifikace hybridního invertoru

Items	iStorageE3 5K	iStorageE3 6K	iStorageE3 8K	iStorageE3 10K	iStorageE3 12K
DC Input (PV)					
Recommended Max. PV input power	23kWp		29kWp		
Max. PV input voltage	1000Vdc				
No. of MPPTs	2				
No. of PV strings per MPPT	1/1		2/1		
Max. PV input current	16A/16A		27A/16A		
Max. short current	20A/20A		34A/20A		
MPPT voltage range	150-900Vdc				
Starting voltage	180Vdc				
DC (PV) switch	Yes				
DC Input (Battery)					
Battery voltage range	650-900Vdc				
AC Input and Output (On-grid)					
Rated AC output power	5kW	6kW	8kW	10kW	12kW
Rated AC output voltage	380/400Vac, 3W/N/PE				
Grid voltage range	323-418Vac/340-440Vac				
Max. output current	7.9A	9.6A	12.8A	16A	17.4A
Max. input current	14.4A	17.4A	23.2A	26A	26A
Rated grid frequency	50Hz/60Hz				
Grid frequency range	45-55Hz/55-65Hz				
Power factor	>0.99 (rated power)				
Adjustable power factor	0.8 (leading)-0.8 (lagging)				
THDI	<3% (rated power)				
AC Output (Back-up)					
Rated AC output voltage	380/400Vac, 3W/N/PE				
Rated output frequency	50/60Hz				
Rated output power	5kW	6kW	8kW	10kW	12kW
Peak output power	12kW, 60s		20kW, 60s		
Peak output current	18.2A, 60s		30.4A, 60s		
Switch time	<10ms (without parallel), <300ms (parallel)				
Support the unbalance load	Yes				
Efficiency					
Max. efficiency	98.3%				
European efficiency	97.5%				
General					
Weight	27kg/59.52lb (including side plates)				
Dimension (W*H*D)	800*400*200mm/31.49*15.75*7.87in (including side plates)				
Enclosure type	IP65				
Certification	EN 62109-1/2, IEC 62109-1/2, EN IEC 61000-6-1/2/3/4, EN 50549-1 NC RfG, PPDS, CEI 0-21, VDE AR-N-4105, VDE V 0124-100				

*Specifications are subject to change without prior notice.





Bateriový modul Lithium-ion

iStoragE B5 Series

Produktové vlastnosti



Bezpečnost a spolehlivost



Inteligence a flexibilita



Jednoduché ovládání a údržba



Items	iStoragE B5L-S1	iStoragE B5-S1	iStoragE B5-S2
General			
Cell technology		LiFePO4	
Energy capacity		5kWh	
Usable capacity ¹		5kWh	
Scalability		8	
Scalable capacity range		5~40kWh	
Rated power	2.5kW	4kW	4kW
Voltage range		360~500Vdc	650~900Vdc
Maximum charge current	6.94A	11.11A	6.15A
	6.94A	11.11A	6.15A
Maximum discharge current	8.3A, 10s	13.33A, 10s	7.38A, 10s
Dimension (W*H*D)	800*380*200mm/31.49*14.6*9.37in (including side plates)	800*380*238mm/31.49*14.6*9.37in (including side plates)	800*380*238mm/31.49*14.6*9.37in (including side plates)
Weight	49kg/108.02lb (including side plates)	51kg/112.43lb (including side plates)	52kg/114.64lb (including side plates)
Operating temperature		-20~50°C/-4~122°F	
Recommended operating temperature		15~30°C/59~86°F	
Humidity		0~100%RH	
Altitude		3000 m (Derating above 2000 m)	
Cooling type		Natural cooling	
Display		LED	
Communication interface		RS485, CAN	
Topology		Isolated	
Connection method		Floor or Wall mounted (optional)	
Enclosure type		IP65	
Certification	UL9540A, UL1973, UL60730, UN38.3	IEC 62619, IEC 60730, UN38.3, IEC 62040-1	IEC 62619, IEC 60730, UN38.3

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*1. Test conditions: 25°C, 100 % depth of discharge (DOD), 0.2C charge & discharge

