

SBB 1.0 / 1.5

(Samsung Battery Box)

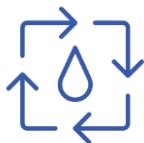
SAMSUNG SDI



高用量 | 一体型 | 長寿命

3.84 / 5.26 MWh DC Enclosure

(Scalable to 7 SBBs per bank)



Enhanced Performance – 水冷式

- 従来の空気冷却システムに比べて、電力、作動の柔軟性、および冷却効率を向上させます。
- 容量の維持を強化し、1日に複数のサイクルを使用できます。



Advanced Safety - NFPA 855, 69, and 13

- UL9540認証 - NFPA 855, 69, 13遵守 - UL9540A設置水準テスト性能要求事項満足しています。
- EDI(Enhanced Direct Injection)はプロパゲーションを防止する - 能動ベントと手動ベントは爆発リスクを緩和します。



Easy Installation - All-in-one

- 事前設置されたAC & DCパネル、チラー、アドレス指定可能な火災パネル、空調装置、警報。
- 現場作業の最小化 - 完全に接続された事前テストパッケージ(Plug & Play)に配送します。

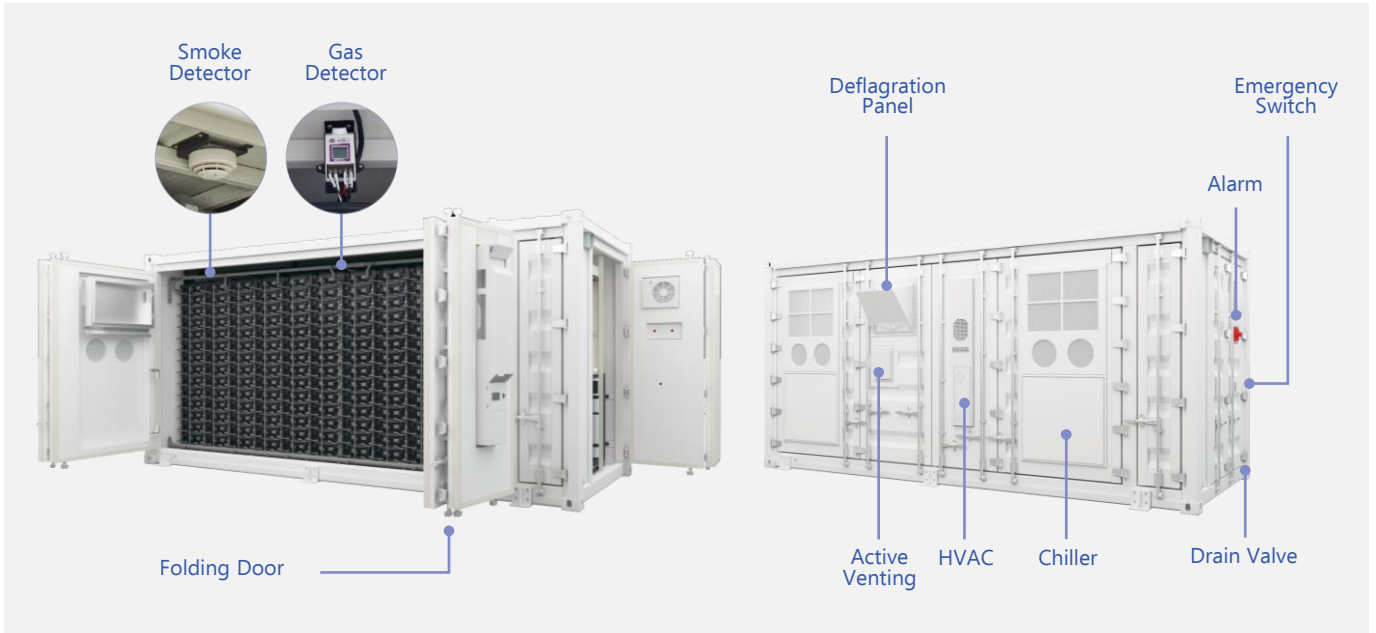
Product		SBB 1.0	SBB 1.5
Cell Type		NCA 145Ah	NCA 145Ah
Configuration		2P360S * 10P	2P352S * 14P
Nominal Energy	kWh	3841	5259
Operation Voltage	V	1116 ~ 1494	1091 ~ 1460
Max. Power	kW	1920	2630
Dimensions (WxDxH)	mm	6058 x 2438 x 2896	6058 x 2438 x 2896
Weight	ton	32	40
Certifications & Standards		UL1973, UL9540, NFPA855	UL1973, UL9540, NFPA855

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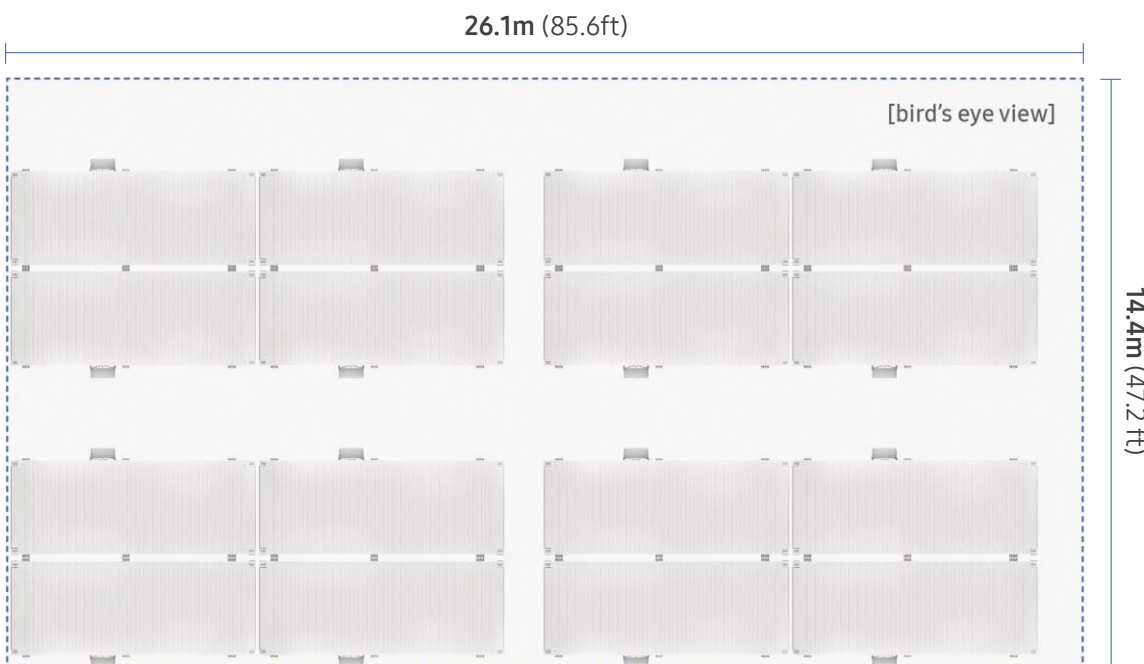
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主な特徴と安全設計(1.5)



最小化されたサイト設置面積 (1.5)

ESSサイト設計時繰り返し可能な設置面積基本単位の最小化(4 SBB)



$$5.26 \text{ MWh} \times 16 / (26.1 \text{ m} \times 14.4 \text{ m}) = 224 \text{ kWh/m}^2 \text{ (21 kWh/ft}^2\text{)}$$



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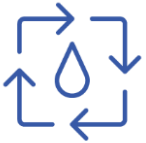
SAMSUNG SDI



High Capacity | Fully Integrated | Long Lifetime

3.84 / 5.26 MWh DC Enclosure

(Scalable to 7 SBBs per bank)



Enhanced Performance - Liquid Cooling

- Improves power, operational flexibility, and cooling efficiency compared to conventional air cooling systems.
- Enhances capacity retention and enables multiple cycles per day.



Advanced Safety - NFPA 855, 69, and 13

- UL9540 certified - NFPA 855, 69, and 13 compliant - Satisfies UL9540A installation level test performance requirements.
- EDI (Enhanced Direct Injection) prevents propagation - Active venting and passive venting mitigate explosion risk.



Easy Installation - All-in-one

- Pre-populated, AC & DC panels, chiller, addressable fire panel, HVAC, alarms.
- Minimizes site work – ships as a fully connected, pre-tested package (Plug & Play).

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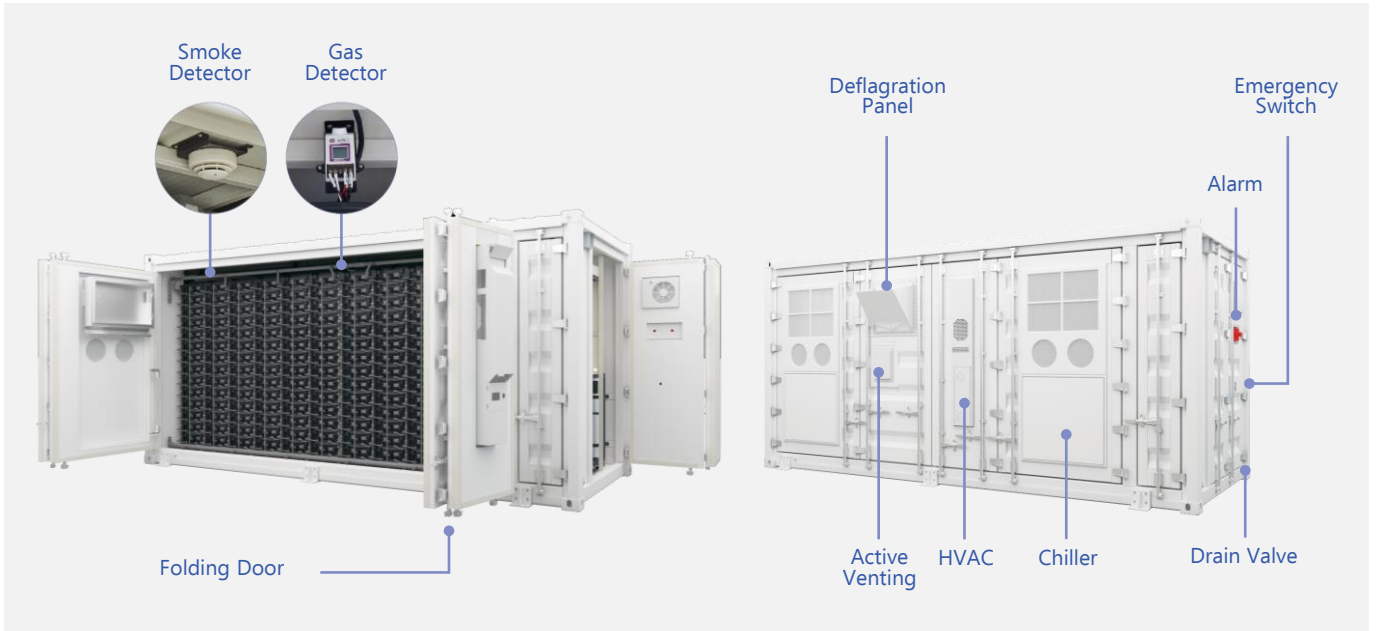


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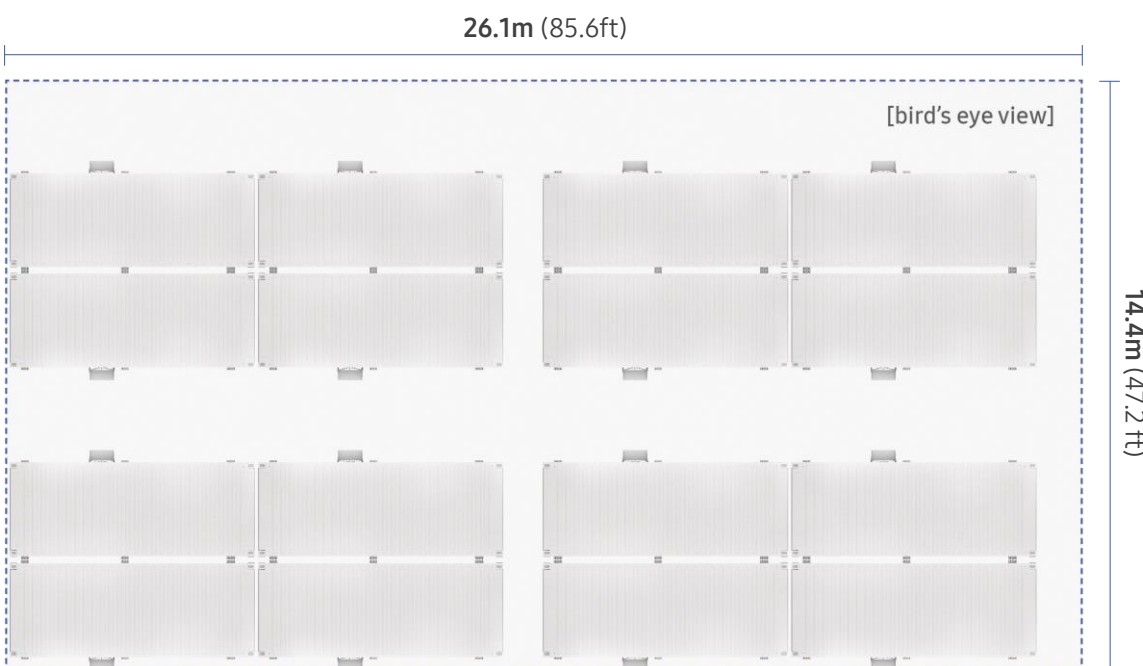
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Main Features & Safety Design



Minimized Site-level Footprint

Minimized Energy footprint of repeatable unit (4 SBB) in ESS site.



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