

## TECHNICAL INFORMATION

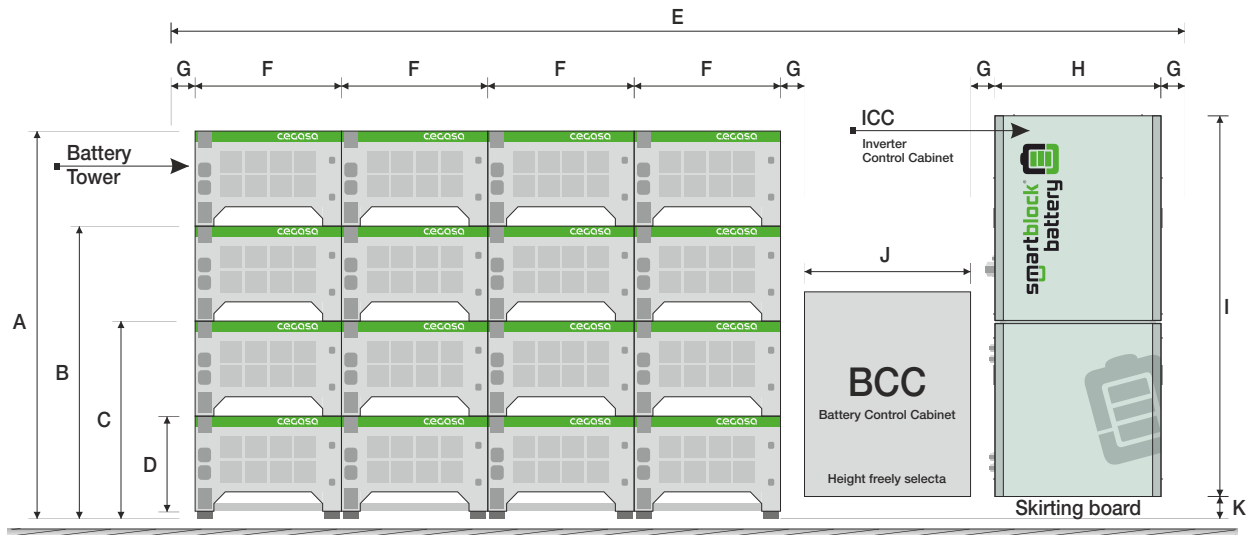
smartblock battery	Unit	sbb30 88	sbb30 99	sbb30 110	sbb30 132	sbb30 176
Item number	Art.No.	A40330	A40340	A40350	A40360	A40370
Gross stored energy (100 % DoD) <sup>1</sup>	[kWh]	107,5	121,0	134,4	161,3	215,0
Nominal Capacity	[Ah]	2240	2520	2800	3360	4480
Net stored energy (80 % DoD) <sup>1</sup>	[kWh]	86,0	96,8	107,5	129,0	172,0
Number of battery modules	[pcs]	8	9	10	12	16
Total weight of battery modules	[kg]	840	945	1050	1260	1680
Total weight	[kg]	1230	1335	1440	1650	2070
Life cycles		> 5.000 (80 % DoD) <sup>1</sup>				
Rated power	[kVA]	30,0 (bei 25°C)				
Output power	[kW]	24,0 (bei 25°C) 21,0 (bei 40°C)				
Peak Power	[kW]	54,0 (bei 25°C)				
Charging power	[kW]	20,0				
Wire type and diameter Mains connection		NYM-J 5x 16mm <sup>2</sup>				
Fuse Size / Characteristic	[A]	NH01 63A / gL/gG				
Connection types		Grid parallel or net replacement function				
Control type		Zero feed regulation / peak shaving (peak load capping) Emergency power operation, changeover <20ms				
Operating temperature range	[°C]	5 - 30				
Humidity (non-condensing) max.	[%]	95				
Connections		3x 230 V (AC IN), 3x 230 V (AC OUT), 1x 48 V (DC)				
Protection class		IP22				
Total weight ICC <sup>2</sup>	[kg]	390				
Settings grid protection		VDE-ARN-N 4105:2018-11				
Safety		EN-IEC 60335-1, EN-IEC 60335-2-29, EN-IEC 62109-1, EN-IEC 62109-2, UN38.3				
Emission		EN 55014-1, EN 55014-2 EN-IEC 61000-3-2, EN-IEC 61000-3-3 IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3				
Battery module manufacturer		CEGASA				
Battery cell type / battery voltage		Lithium-LFP-Technologie LiFePo4 / 48 V				
Inverter manufacturer		VICTRON				

<sup>1</sup>( DoD - Depth of Discharge) <sup>2</sup>( ICC - Inverter Control Cabinet)

## POSITIONING

Installation options for the Battery Towers / positioning scheme / dimensions

### Positioning scheme including dimensions



A = 1890 mm    C = 990 mm    E = 9930 mm    G = 200 mm    I = 1930 mm    K = 100 mm  
 B = 1440 mm    D = 450 mm    F = 760 mm    H = 850 mm    J = 800 mm

### Installation options for the Battery Towers:

smartblock battery Typ	 2-fold Tower	 3-fold Tower	 4-fold Tower	 BCC	 ICC
sbb 30 88	-	-	2x	1x	1x
sbb 30 99	-	3x	-	1x	1x
sbb 30 110	1x	-	2x	1x	1x
sbb 30 132 E	-	4x	-	1x	1x
sbb 30 132 F	-	-	3x	1x	1x
sbb 30 176	-	-	4x	1x	1x

#### INFO:

A **BCC (Battery Control Cabinet)** is absolutely necessary for the systems of this size. This one can be placed **variably to the left or right of the ICC (Inverter Control Cabinet)**.

The **Battery Towers** must be arranged **on the side of the BCC!**