

# Technical data sheet: INTILION | scalebloc

	INTILION   scalebloc <i>energy</i>	INTILION   scalebloc <i>power</i>	INTILION   scalebloc <i>power boost</i>
<b>Technical data</b>			
System type	AC-coupled system in air-conditioned IP 55 outdoor housing		
Scalability	Can be connected up to 16x in parallel (also retrofittable)		
Operating mode	mains parallel operation, mains backup operation, island operation		
Areas of application	<b>Ongrid:</b> Peak shaving, optimisation of own consumption, Precharge storage Electric mobility, Setpoint setting by external EMS  <b>Offgrid:</b> Emergency power supply, island operation with black start capability		
<b>Electrical data</b>			
Energy content, nominal	68,5 kWh	68,5 kWh	68,5 kWh
Energy content, usable	61,65 kWh (90 % DoD)	61,65 kWh (90 % DoD)	61,65 kWh (90 % DoD)
Voltage, nominal	400 V AC (3L, N, PE), 50 Hz	400 V AC (3L, N, PE), 50 Hz	400 V AC (3L, N, PE), 50 Hz
Net shape	TN-S, TN-C-S <sup>*1</sup>	TN-S, TN-C-S <sup>*1</sup>	TN-S, TN-C-S <sup>*1</sup>
Output, nominal	25 kVA	50 kVA	68,5 kVA
Skew load capacity	33 % / 8,3 kVA	33 % / 16,7 kVA	33% / 22,8 kVA
Overload capacity in network forming operation	125 % für 10 min 150 % für 1 min	125 % für 10 min 150 % für 1 min	/
Power factor	-1 bis 1	-1 bis 1	-1 bis 1
Current, nominal	37 A	74 A	100 A
Current, max.	54 A	100 A	100 A
Max. Connection cross section	5 x 50 mm <sup>2</sup>	5 x 50 mm <sup>2</sup>	5 x 50 mm <sup>2</sup>
Minimum protection of the supply line	63 A	100 A	100 A
<b>General data</b>			
Cell type	Lithium-Ionen (NMC), prismatisch, 94 Ah		
Cell layout	198S1P		
Battery DC voltage, nominal	729 V		
Ambient temperature	-30 °C bis +55 °C		
Installation height	Max. 2000 m NN <sup>*2</sup>		
Weight (approx.)	930 kg	962 kg	995 kg
Dimensions (H x W x D)	2125 mm x 1618 mm x 1026 mm		
Lightning protection class	Class 1 & 2		
Communication standards	Modbus TCP/IP, Cloud connection via LTE (MQTT)		
Sound pressure level (1m)	73 dB(A), <35dB(A) with optional noise protection hood (5m)		
<b>Performance</b>			
Cycles for 90 % DoD and 70 % SoH	8000 <sup>*3</sup>		
Design Life	15 years		
Performance Guarantee	5 years or 4000 cycles (opt. 10 years, 6000cycles) on the battery <sup>*4</sup> 5 years on the corrosion resistance of the control cabinet <sup>*5</sup>		
<b>Norms &amp; Standards</b>			
EU Directives	2014/53/EU (RED), 2014/30/EU (EMC), 2014/35/EU (LVD)		
Norms & Standards	EN 300 328 V2.1.1, EN 61000-6-2, EN 61000-6-4, EN 62040-2, EN 61439-1, EN 61439-2, EN 62109-1, EN 62109-2 EN 62619, UN 38.3, VDE-AR-E 2510-50 Abs. 6.2.6 VDE-AR-N 4105, VDE-AR-N 4110 EN 50549-1, TOR Erzeuger Typ A		
Country Certifications	Germany, Austria, Switzerland, Netherlands, Czech Republic, Poland, Romania, Ukraine, Sweden, Norway, Finland, Albania, Bosnia & Herzegovina, Bulgaria, Croatia, Estonia, Iceland, Latvia, Lithuania, Macedonia, Montenegro, Serbia, Slovenia, Slovakia		

<sup>\*1</sup> Other mains types on request.

<sup>\*2</sup> Higher installation locations on request.

<sup>\*3</sup> Theoretical value at EOL: up to 70 % SoH, 10 years operating time; operating parameters: 0.5C, 23 °C, 90 % DoD.

<sup>\*4</sup> You will find the corresponding warranty conditions on our website: [www.intilion.com](http://www.intilion.com).

<sup>\*5</sup> Corrosion caused by scratches, vandalism and similar events is excluded from the Performance Guarantee.