



Technical data sheet

## INTILION | scalestac

Secure.

Scalable.

Economical.



### The advantages at a glance

- ▶ Modular and flexibly expandable battery storage system at the power and capacity level
- ▶ First standardised system with charge/discharge performance up to 2C
- ▶ Plug & Play, all-in-one, AC-coupled solution
- ▶ 123/154 kWh nominal energy capacity
- ▶ One to sixteen 25 kVA three-phase 4Q inverters of the latest generation
- ▶ Maximum battery cell life
- ▶ Lithium Ferrum Phosphat for maximum operational and fire safety
- ▶ Fully comprehensive energy management system for monitoring all installed systems and reliable remote maintenance service
- ▶ Improved maintainability through plug-in modules (battery modules, battery management system, inverter)
- ▶ Additional UPS system for safe operation during a power outage
- ▶ Integrated NA protection/uncoupling protection according to VDE AR-N 4105/4110 incl. test terminal strip

### Areas of application:

- ▶ Electromobility
- ▶ Agriculture
- ▶ Industry
- ▶ Quarters

### Applications:

- ▶ Peak-shaving
- ▶ Mains backup power supply
- ▶ Grid services
- ▶ Self-consumption optimisation

# Technical data

INTILION | scalestac power

INTILION | scalestac power boost

Technical data		
System type:	AC-coupled system IP 20	
Scalability:	Up to 16x parallel connectable (also retrofittable)	
Operating mode:	Mains parallel operation, mains backup power operation	
Areas of application:	<b>Ongrid:</b> peak shaving, self-consumption optimisation, pre-charge storage of electromobility, setpoint specification by external EMS; <b>Offgrid:</b> standby grid operation *1	
Electrotechnical data		
Energy content, nominal:	154 kWh	123 kWh
Energy content, usable:	138,6 kWh (90 % DoD)	110,7 kWh (90 % DoD)
Voltage, nominal:	400 V AC (3L, N, PE), 50 Hz	
Net shape:	TN und TT*2	
Power, nominal:	up to 400 kVA (with up to 16 inverters)	
Sliding load capacity:	33 % the system performance / per inverter 8,33 kVA	
Overload capacity in grid-forming operation*3:	125 % for 10 min 150 % for 1 min	125 % for 10 min 150 % for 1 min
Power factor:	-1 to 1	
Power, nominal:	per inverter 37 A	
Power, max.:	per inverter 54 A for 1 minute	
General data		
Cell type:	Lithium-Ionen (LFP), prismatic	
Battery DC voltage, nominal:	768,0 V bis 844,8 V	
Ambient temperature:	0 °C bis +40 °C	
Installation height:	Max. 2000 m NN*4	
Weight control cabinet (min.):	~ 800 kg	~ 800 kg
Weight battery cabinet (ca.):	1848,5 kg	1597,7 kg
Control cabinet dimensions (H x W x D):	2000 mm*5 x 2000 mm (2600mm) x 800 mm	
Dimensions battery cabinet (H x W x D):	1860 mm x 1000 mm x 938 mm	
Communication standards:	Modbus TCP/IP, cloud connection*6	
Performance		
Zyklen bei 90 % DoD und 70 % SoH:	6000*7	
Design Life:	15 years	
Performance-Garantie:	10 years resp. 4000 cycles on the battery*8	
Norms & Standards		
EU-Guidelines:	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-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	

\*1 Optionally expandable, longer delivery times possible in start-up phase.

\*2 Further network forms on request.

\*3 Value is still being finalised by further tests and may therefore deviate slightly.

\*4 Higher installation locations on request.

\*5 Height of control cabinet including optionally extendable base 2200 mm.

\*6 Internet connection to be provided by customer.

\*7 Theoretical value at EOL: up to 70 % SoH, 10 years operating time; operating parameters: 0.5C, 23 °C, 90 % DoD.

\*8 The associated warranty conditions can be found on our website: [www.intilion.com](http://www.intilion.com).

# Configuration options

INTILION   scalestac power (up to 1C)							
Power	Energy	1 154 kWh	2 308 kWh	3 462 kWh	4 616 kWh	5 770 kWh	6 924 kWh
25 kVA		✓	✓	✓	✓	✓	✓
50 kVA		✓	✓	✓	✓	✓	✓
75 kVA		✓	✓	✓	✓	✓	✓
100 kVA		✓	✓	✓	✓	✓	✓
125 kVA		✓	✓	✓	✓	✓	✓
150 kVA		✓	✓	✓	✓	✓	✓
175 kVA			✓	✓	✓	✓	✓
200 kVA			✓	✓	✓	✓	✓
225 kVA			✓	✓	✓	✓	✓
250 kVA			✓	✓	✓	✓	✓
275 kVA			✓	✓	✓	✓	✓
300 kVA			✓	✓	✓	✓	✓
325 kVA				✓	✓	✓	✓
350 kVA				✓	✓	✓	✓
375 kVA				✓	✓	✓	✓
400 kVA				✓	✓	✓	✓

INTILION   scalestac power boost (up to 2C)				
Power	Energy	1 123 kWh	2 246 kWh	3 369 kWh
25 kVA		✓*	✓*	✓*
50 kVA		✓*	✓*	✓*
75 kVA		✓*	✓*	✓*
100 kVA		✓*	✓*	✓*
125 kVA		✓	✓*	✓*
150 kVA		✓	✓*	✓*
175 kVA		✓	✓*	✓*
200 kVA		✓	✓*	✓*
225 kVA		✓	✓*	✓*
250 kVA		✓	✓	✓*
275 kVA			✓	✓*
300 kVA			✓	✓*
325 kVA			✓	✓*
350 kVA			✓	✓*
375 kVA			✓	✓
400 kVA			✓	✓

✓\* In this configuration, the overall system performance is < 1C.

# INTILION

Part of the HOPPECKE Group



INTILION GmbH  
Dr. -Sinsteden-Straße 8  
08056 Zwickau  
[contact@intilion.com](mailto:contact@intilion.com)  
+49 (0) 5251 69 32 0

All information in this brochure is based on the current state of the art. Our products are subject to constant further development, therefore we reserve the right to make changes. All illustrations are similar.