

# STABL

Industrial Battery Storage by STABL

**Reliable. Safe. Efficient.**

DATASHEET

## Inverter 100

Next-generation inverters  
thanks to modular multi-level  
technology

- High revenues thanks to unidirectional overall efficiency of 97%
- Controllability of second-life batteries
- Maximum safety thanks to low voltage (max. 68 V) per module
- Fail Safe: Bypassing faulty modules for maximum uptime
- 24/7 monitoring down to the cellular level
- Intelligent multi-battery integration in a single power inverter

**5**  
YEAR  
WARRANTY



## DATASHEET

# STABL Inverter 100

Three-phase modular multi-level inverter for 230/400V grids

General data		
Inverter components	x inverter modules & CMUs per phase, 1x inverter connection box	
Output		
Output voltage AC 3ph (phase - phase/phase - neutral conductor)	400 / 230	V ac
AC rated power (at 400V phase-phase mains voltage)	67.5	kVA
AC frequency	50 & 60	Hz
AC rated current (continuous, bidirectional)	97.8 (RMS)	A
$I''_k$ - initial symmetrical short-circuit current	49	A
$i_p$ - Surge short-circuit current	320	A
Supported networks - Three-phase	3 / N / PE	
Reactive power (as a percentage of apparent power)	0-100	%
Input		
DC input voltage per module (max.) (OCV)	68	V dc
DC input current (continuous, bidirectional)	100	A dc
DC short-circuit current	120	A dc
Maximum efficiency of the inverter	99.4	%
Own consumption	10	W
Additional features		
Possible communication interfaces	RJ 45 / ModbusTCP	
Reverse polarity protection DC input	Yes	
Intelligent energy management	Communication via Modbus TCP	
Inverter commissioning	via VPN	
Inverter module-to-inverter module communication	RJ45 / ModbusTCP	
Safety		
Max. fuse size	100 (recommended: NH 00 AC 500V 100A gR)	A
Protection class	I	
Overvoltage category	III	
Guidelines		
BattReg 2023/1542	IEC 62619, IEC 63056	
RoHs	IEC 63000	
EMC	IEC 61000-6-2, IEC 61000-6-4	
LVD	IEC 62477-1	
Supported network requirements	VDE-AR-N 4105:2018-11, VDE-AR-N 4110:2023-09, VDE-AR-N 4120:2018-11, Tor producer Typ A:2022-04, Tor producer B and C	
Mechanical specifications		
AC output (3ph at inverter connection box)	25	mm <sup>2</sup>
DC input on inverter module	16	mm <sup>2</sup>
Inverter module dimensions (HxWxD)	285 x 111 x 49	mm
Inverter connection box dimensions (HxWxD)	550 x 480 x 270	mm
Weight (24 inverter module configuration)	333	kg
Operating temperature range	+5 bis + 45 <sup>1)</sup>	°C
Cooling	Passive air cooling	
Noise emission	<60	dB(A)
Protection class	IP 20	
Mounting type	Rack system	
Installation conditions		
Installation distance from the coast	> 5000 (optional: >1000)	m
Maximum installation height	2000 above sea level (>2000 requires approval by STABL Energy)	m
Humidity range	40 – 80	%

The data mentioned are subject to change. Please contact us for the latest information: [sales@stabl.com](mailto:sales@stabl.com).

<sup>1)</sup> High and low temperatures lead to a reduction in performance due to derating. This varies depending on the battery type.