SolBrid

3-phase hybrid inverter with up to 4 MPP trackers and 1 battery connection

10 kW hybrid inverter, 3-phase
Up to 4 mpp tracker + 1 battery connection
Substitute current capable in connection with backup power box
Compatible with common high-voltage batteries
WiFi and LAN
Easy installation

Product features

- Flexible and expandable
- Simple installation
- Suitable for outdoor installation

	SolBrid 10-3-2	SolBrid 10-3-4
DC input side (PV generator)		
Maximum input voltage	1000 V	
MPP-voltage range in mains parallel operation	85 V ... 850 V	
MPP-voltage range for zero-voltage systems	85 V ... 700 V	
Operating voltage range at rated power (1 MPP)	670 V ... 850 V	
Operating voltage range at rated power (2 MPP)	340 V ... 850 V	
Operating voltage range at rated power (4 MPP)		180 V ... 850 V
Number of MPP tracker	2	4
Max. PV input current per PV input	15 ADC	
Maximum short circuit current	18 A	
Maximum input power at maximum active output power	10300 W	
Max. connectable pv-output (total)	12 000 W, total PV 1 + 2 = 12 000 W max.	15 000 W, total PV 1 + 2 + 3 + 4 = max. 15000 W, total PV 1 + 2 = max. 12 000 W, total PV 3 + 4 = max. 12 000 W
Max. connectable pv-output (per channel)	9000 W per PV-input	
AC output side (Grid connection)		
Grid voltage	3x 185 V ... 276 V	
Rated grid voltage	3x 230 V	
Rated output current	14.49 A	
Maximum output current	16.0 A	
Maximum active power (cos phi = 1)	10000 W	
Max. apparent performance with cos phi = 1	10000 VA	
Rated power	10000 W	
Rated frequency	50 Hz	
Frequency range	45 Hz ... 55 Hz	
Night-time power loss	< 6 W	
Feeding phases	three-phase	
Power factor cos phi	0.8 capacitive ... 0.8 inductive	
Highest output fault current	16 A	
Battery connection		
Number of battery inputs	1	
Maximum input voltage	1000 VDC	
Operating Voltage Range	85 V - 700 V	
Operating voltage range at rated power	400 V ... 700 V	
Max. input current	25 ADC	
Max. input power with max. AC output active power	10 300 W	
Characterisation of the operating performance		
Max. efficiency	97.5 %	
European efficiency	97.1 %	
MPP efficiency	> 99.7 % (static), > 99 % (dynamic)	
Power derating at full power from	40 °C (T_{amb})	
Safety		
Isolation principle	no galvanic isolation, transformerless	
Grid monitoring	yes, integrated	
Residual current monitoring	yes, integrated (The design of the inverter prevents it from causing DC leakage current)	
Compatibility with external residual current devices	RCD type A	
Protection class	protection class I (protectiv)	
Operating conditions		
Area of application	outdoors & indoors	
Climate protection class as per IEC 60721-3-4	4K4H	
Altitude	Max. 2 000 m about NN	
Ambient temperature	-25 °C ... +60 °C	
Relative humidity	0 % ... 100 %, condensing	
Noise emission (typical)	31 dBA	
Fitting and construction		
Degree of protection	IP 65	
Overvoltage category	III (AC), II (PV / Bat)	
AC output side connection	Wieland 5-pole	
Dimensions (X x Y x Z)	700 x 500 x 181 mm	
Weight	29.0 kg	
Communication interface	LAN-connection (RJ45), WiFi, RS485 A (RJ45), RS485 B (RJ45) battery interface, RS485 C (RJ45) Gridswitch (mains isolating meter) and approved energy meters	
Integrated DC circuit breaker	yes, compliant with VDE 0100-712	
Cooling principle	Convection cooling on the outside, temperature-controlled fan on the inside, variable speed, internally dust-protected	