

Residential and Business
Hybrid 3-Phase Solar Inverters

Solar Inverter SVN 3/3

PowerGlo 

Energy Management System
kompatibel

Web-Interface und Smartphone App



Strong
Charger



High Max.
PV Capacity



Can work
without Battery



2x MPP
Tracker



Low-Voltage ESS
Compatible



Wi-Fi Optional



USB-Type B
Monitoring

Model	Solar Inverter SVN 10k	Solar Inverter SVN 15k
Rated Output Power	10 000 W	15 000 W
Parallel Operation	Up to 6 Units	
Compatible Battery Type	Lithium-ion / Lead-acid	
Min. requirements of the LiFe Battery System	2x LiFe Battery 48-100 Module + 1x PDU	
Efficiency		
Maximum Efficiency (PV to AC)	96 %	
DC Input (PV)		
Maximum PV Power	14 850 Wp	22 500 Wp
Maximum PV Voltage	900 V	
Start-Up Voltage	320 V	
PV Input Voltage Range	300 V ~ 900 V	
MPPT Voltage Range	400 V ~ 800 V	350 V ~ 850 V
Maximum Input Current (PV 1 / PV 2)	18.6 A / 18.6 A	37.2 A / 18.6 A
Maximum Short-Circuit Current	25 A	51 A / 25.5 A
No. of MPP Trackers	2	
String per MPP Tracker (PV 1 / PV 2)	2 / 2	3 / 2



The range of output voltage and frequency may vary depending upon country regulation. Errors and misprint are possible in spite of careful editing - liability excluded. Specifications are subject to modifications.

Model	Solar Inverter SVN 10k	Solar Inverter SVN 15k
AC Input		
Maximum AC Input Power	10 000 W	15 000 W
Maximum Input Apparent Power	10 000 VA	15 000 VA
AC Start-Up Voltage	120 V ~ 140 V per Phase	
Input Voltage Range (also feed-in value)	170 V ~ 290 V per Phase	170 V ~ 280 V per Phase
Input Frequency Range (also feed-in value)	47.5 Hz ~ 51.5 Hz or 59.3 Hz ~ 60.5 Hz	
Maximum AC Input Current	40 A	
AC Output		
No. of Phases	Three Phase	
Nominal AC Output Power	10 000 W	15 000 W
Maximum Output Apparent Power (PF=1)	10 000 VA	15 000 VA
Rated Voltage	230 V (P-N) / 400 V (P-P)	
Voltage Range	185 V ~ 265 V	
Rated Frequency	50 Hz or 60 Hz	
Rated Output Current	14.5 A per Phase	21.7 A per Phase
Maximum AC Output Current	51 A	68 A
Power Factor / Range	1 / 0.9 Lead - 0.9 Lag	
Battery Input (Charging)		
Maximum Charge Power	10 000 W	15 000 W
Nominal DC Voltage	48 V	
Battery Voltage Range	42 V ~ 56 V	42 V ~ 62 V
Maximum PV / AC Charge Current	200 A, default 60 A	300 A, default 60 A
Battery Output (Discharging)		
Nominal Output Voltage	230 V (P-N) / 400 V (P-P)	
Nominal Output Frequency	50 Hz or 60 Hz	
Output Wave Form	Pure Sine Wave	
Nominal Output Power	10 000 W	15 000 W
Maximum Discharge Power	10 000 W	15 000 W
Nominal Output Current	200 A	300 A
Maximum Discharge Current	275 A	400 A
Transfer Times (AC to Battery)	≤ 15 ms	
Transfer Times in Parallel Operation ≤ 50	≤ 50 ms	
Protection		
Anti-Islanding Protection	Yes	
Insulation Detection	Yes	
DC (PV) Switch	Yes	
DC Surge Protection	Yes	
AC Surge Protection	Yes	
AC Overcurrent Protection	Yes	
AC Short Circuit Protection	Yes	
AC Overvoltage Protection	Yes	
Ground Fault Circuit Interrupter (GFCI)	Yes	
EPO (Emergency Power Off)	Yes	
Environment and Logistics		
Maximum Operation Altitude	Maximum 2000 m, derating above 1000 m	
Ingress Protection Degree	IP20	
Operating Temperature Range	-10°C ~ 55°C	
Relative Humidity	0 ~ 90% RH (No Condensing)	
Cooling	Active Cooling	
Noise Emission	< 65 dB	
Dimensions (D x W x H) in mm	167 x 500 x 622	224 x 650 x 820
Weight	43.5 kg	65 kg

Certification

Safety IEC 62109-1/2
 EMC IEC/EN 61000-6-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, IEC/EN 61000-6-4, IEC/EN 61000-2-2
 Grid Code VDE-AR-N 4105: 2018-II, VDE V 0124-100: 2020-06, EN 50549-1:2019, IEC/EN 62116:2014, IEC 61727:2004