



SLX Series Photovoltaic Inverter Outdoor Rated US Version

Harsh Weather Operation- Up to 50° C Maximum Efficiency Without Derating

30%

Better Cooling of IGBT's

ShowerPower® Stack provide better heat transfer for cooling IGBT's

Danfoss's Solar grid-tied systems are designed for Utility scale solar applications such as industrial facilities or ground mount installations.

SLX Series has been designed with the toughest criteria on all critical components, achieving an extremely robust and reliable inverter designed to last for 25 years and to deliver true maximum output power on a continuous basis.

With this design concept, SLX Series achieves peak efficiencies to 98%. Up to +50° C all of the components are optimally cooled in part to the liquid cooled design for semiconductors and inductors.

Smart Controls

SLX Series controls are Digital Signal Processor (DSP) based with sophisticated control and self-diagnostic algorithms.

An LCP display shows the unit's operating status and a built-in Data Logger records and sends performance and operational data.

Best In Class Communications Capabilities

SLX Series offers the best communication channel available on the market.

Allows pyronometer, wind speed indicator, and temperature sensors to work in parallel and record data from each unit and store that data to be transmitted daily over modem, or optional internet access.

Standards and Codes

SLX Series inverters comply with standards set for grid-tied operation, safety and electromagnetic compatibility including: UL, NEC690, IEEE 929, IEC61683, IEC61727, EN50081, EN50082, EN61000, FERC661A



SLX Series Benefits

- Nema 4 (IP65) ruggedized, completely sealed unit to stand the harshest environmental conditions
- Compact size and high power density: 1000-1500 kVA of output power in an enclosure just (2.3 H x 4 W x 1 D)
- Liquid cooled heat-sinks keeps the unit cleaner and more efficient over time also results in extended maintenance intervals
- Parallel up to 2 units for 2.5 MVA AC station capability
- Ride-Through meeting FERC requirement for 3 to 5 sec.
- Certified grid connected operation according to the most important international standards
- Easy plant supervision through Ethernet communication
- Isolation transformer is (optional) dependent upon utility interconnection



	SLX 1000 kW	SLX 1250 kW	SLX 1500 kW
Specifications:			
Power Rating [kVA]	1000	1250	1500
DC power rating [kWp]	1250	1500	1750
Open Circuit Voltage Max. [Vdc]	1000		
Power Tracking Window range [Vdc]	450 - 900	550 - 900	675 - 900
Fused Feeder landings	8+/ 8- 400 Amp/1100 VDC	12+/ 12- 400 Amp/1100 VDC	16+/ 16- 400 Amp/1100 VDC
Array Configuration	Mono-pole: common negative, or positive grounding, and ungrounded		
Nominal AC Voltage (Range) [Vrms]	Three-phase 300 VAC	Three-phase 350 VAC	Three-phase 400 VAC
Nominal AC Frequency [Hz]	50/60		
Line Power Factor	±0.85		
Maximum AC Line Current [Arms]	2025		
AC Current Distortion [%]	<3% THD at rated power		
Max Efficiency [%]	> 98		
CEC Efficiency	97.5		
Stand By Losses [W]	< 100		
Operating Ambient Temperature °C (°F)	-20 to +50 (-4 to 122)		
Enclosure Environmental Rating	NEMA 4 / IP65		
Relative Humidity	5 -100% condensing – dehumidifier used		
Elevation	Derated above 6,600 ft (2000 m)		
Audible Noise [dBA]	< 70		
Size (height x width x depth) meter (ft)	2.3H x 4.0W x 1.0D (7.5H x 13W x 3.2D)		
Weight Kg (lbs)	3,200 (7,055)		



North America

Danfoss Solar Inverters
 4401 N Bell School Road
 Loves Park, IL 61111
 Tel: +1 (855) 335-2912
 Fax: +1 (815) 639-8660
 solar-us@danfoss.com

Europe

Danfoss Solar Inverters
 Ulsnaes 1
 DK-6300 Graasten
 Denmark
 Tel: +45 7488 1300
 Fax: +45 7488 1301

www.danfoss.us/solar