

SLX 125-1500 SLX 166-1500

3-Ph Transformerless Utility-Scale Inverters

Features

- Designed and made in the USA
- Robust, dependable and built to last
- Flexible solution for distributed and centralized system architecture
- Lowest O&M and installation costs
- Multiple communication platforms
- Remote firmware upgrades
- Advanced grid support functionality

Options

- Fiber optic communications
- Revenue grade metering
- Extended warranty
- Uptime guarantee
- Attachable String Combiner for distributed architecture
- H4 or MC4 Connectors for String Combiner



Yaskawa's SLX 1500 inverters are the most powerful 1500VDC string inverters announced to the PV market. Their quality and reliability are unmatched, backed by Yaskawa's test standards. Each component is tested and proven to last beyond warranty time periods. The standard Ethernet and optional fiber optic communication interfaces provide customers the ability to do remote diagnostics and firmware/software upgrades.

Preliminary Specifications

	SLX 125-1500	SLX 166-1500
DC Input		
Absolute Maximum Input Voltage	1500 VDC	
Operating Voltage Range	860-1450 VDC	
Maximum Power Input Voltage Range (MPPT)	860-1250 VDC	
MPP Trackers	1	
Maximum Operating Input Current	147A	195A
Maximum Operating PV Power	127 kW	169kW
Maximum Rated PV Input	188kWdc	250kWdc
Maximum Recommended DC to AC Ratio	1.5	
Attachable String Combiner		
Max Number of DC Inputs	20	24
Fuse Options	15, 20, 30 A	
PV Connector Options	Amphenol H4, or Multi-Contact MC4	
DC Disconnect	Integrated, both positive and negative poles	
Dimensions (H x W x D)	29.5 x 12 x 15.1 in (750 x 325 x 384 mm)	
AC Output		
Nominal Output Voltage	600 VAC, 3-Ph	
AC Voltage Operating Range	528-660 VAC (-12/+10%)	
Maximum Output Power	125 kW	166 kW
Maximum Apparent Power	125 kVA	166 kVA
Maximum Output Current	120 A	160 A
Nominal Output Frequency (Min/Nom/Max)	50 Hz / 60 Hz / 60.5 Hz	
Power Factor (Min/Nom/Max)	-0.85 / 1.0 / +0.85	
Total Harmonic Distortion (THD) @ Rated Load	<3%	
Grid Connection Type	3-Ph +N/GND	
Efficiency		
CEC Average (CEC Peak)	98.5% (98.8%)	98.5% (98.7%)
Tare Loss	<1 W	
Temperature		
Ambient Temperature Range	-40°F to +140°F (-40°C to +60°C) derate at 50°C	
Storage Temperature Range	-40°F to +167°F (-40°C to +75°C)	
Relative Humidity (non-condensing)	0 to 95%	
Operating Altitude Limit	9,842 ft (3,000 m)	
Communications		
Advanced Graphical User Interface	WiFi	
Communication Interface	RJ-45 Ethernet, Multi-Mode Fiber (optional)	
3rd Party Monitoring Protocol	Sunspec Modbus TCP/IP	
Web-Based Monitoring	Optional	
Revenue Grade Metering	Optional	
Firmware Updates	Remote/Local	
Testing & Certifications		
Safety Listings & Certifications	UL 1741/IEEE 1547, UL 1699B, UL 1998, FCC part 15B	
Testing Agency	ETL	
Warranty		
Standard	5 Years	
Optional	5, 10 or 15 year Warranty extension	
Enclosure		
dBA (Decibel) Rating	55 dBA @ 1m, 35 dBA @10m	
DC Disconnect	Integrated, both positive and negative poles	
Mounting Angle	Vertical only	
Dimensions (H x W x D)	29.5 x 38.4 x 15.1 in (750 x 975 x 384 mm)	
Weight (inverter only)	200 lbs (91 kg)	230 lbs (104 kg)
Enclosure Rating	NEMA Type 4x	
Enclosure Finish and Type	Powder Coated Aluminum	