



DLX Inverter Series

Performance and flexibility in a user friendly design

Available in 2.0, 2.9, 3.8 and 4.6 kW



The DLX series of transformer based string inverters defines a new level of efficiency, flexibility and user friendliness.

Flexibility gives more options

Galvanic isolation makes the DLX suitable for all PV cell technologies. The IP65 die cast aluminium casing allows for indoor or outdoor mounting. Convection cooling gives consistent performance even under high ambient temperatures and reduces noise issues.

Weighing between 19 and 21 kg, the DLX is easy to handle and mount. The two-way interactive display offers multiple languages for easy country configuration.

Simple to monitor on, or off site

The full-colour screen has an intuitive user-interface with clear and easy to access graphs and diagrams. A full monitoring solution is built-in and no extra PC software is required. For larger sites, a single inverter acts as a monitoring hub, to provide a single point of access for performance checks – either remotely or on-site – at any time.

ConnectSmart™ integrated

Have production data shown directly on smartphone or tablet in real time on the Danfoss SolarApp. This gives you 24/7 access to live data, wherever you are in the world.

97.3%

Maximum efficiency

World class performance in a transformer based solution

Performance

- World leading efficiency of 97.3%
- Transformer-based
- Robust design with IP65
- Convection cooled for consistent performance

Flexibility

- Suitable for all kinds of PV module types
- Low noise allows indoor locations
- Multiple language options

User-friendliness

- Full built-in monitoring
- ConnectSmart™ integrated
- No extra PC software is required
- Master inverter functionality

DLX Factsheet

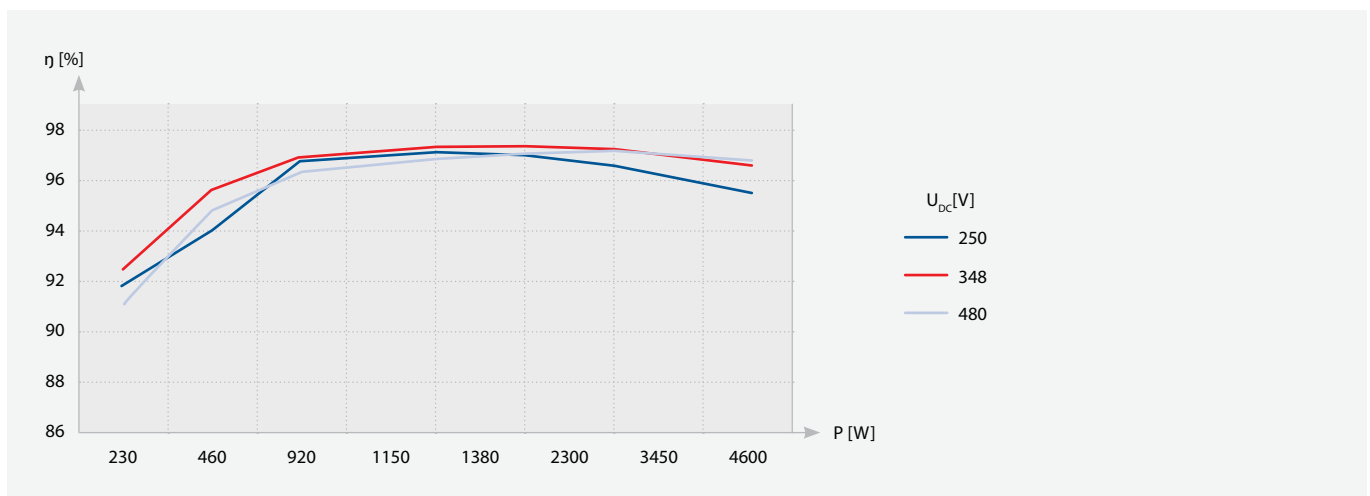
For additional technical data and functional descriptions please refer to the manuals on www.danfoss.com/solar



Parameter	DLX Series			
AC				
Rated apparent power ¹⁾	2000 VA	2900 VA	3800 VA	4600 VA
Rated active power ²⁾	2000 W	2900 W	3800 W	4600 W
Reactive power range ¹⁾	0 - 1600 VAR	0 - 2320 VAR	0 - 3120 VAR	0-3680 VAR
Rated grid voltage (voltage range)	1P+N+PE/2P+PE - 230 V (+/- 20%)			
Rated current AC	9.0 A	13.0 A	17.0 A	20.0 A
Max. current AC	10.5 A	15.2 A	19.7 A	23.0 A
Power factor - default	1 at rated power			
Power factor - regulated	0.8 over-excited, 0.8 under-excited			
Night-time power consumption (off grid)	< 1 W			
Rated grid frequency (frequency range)	50 Hz +/- 5 Hz			
DC				
Max. PV input power per MPPT	2625 W	3750 W	5000 W	6000 W
Rated PV input power, total	2100 W	3000 W	4000 W	4800 W
Rated voltage DC	350 V			
MPPT voltage range - rated power	230-480 V			250-480 V
Max. voltage DC	600 V			
Start up voltage	230 V			
Turn off voltage	220 V			
Max. MPPT current DC	9.5 A	13.5 A	18.0 A	21.0 A
Max. short circuit current DC	9.5 A	13.5 A	18.0 A	21.0 A
MPP tracker/ Input per MPPT	1 / 3 (Sunclix)			
Efficiency				
Max. Efficiency	97.2 %	97.2 %	97.2 %	97.3 %
EU/ CEC efficiency at $v_{dc,r}$	96.3 % / 96.8 %	96.5 % / 96.8 %	96.7 % / 97.0 %	96.9 % / 97.0 %
MPPT efficiency static	99.9 %			
Enclosure				
Dimensions HxWxD (incl. Packaging)	610 x 353 x 158 mm (735.6 x 475.8 x 315.7 mm)			
Weight (incl. Packaging)	19 kg (26 kg)	21 kg (27.5 kg)		
Enclosure rating	IP 65			
Acoustic noise level	<37db (A)			
Operational temperature range	-25 to +65 °C (Possible power derating above +45 °C)			
Relative humidity	4 % to 99 %			
Ancillary Services				
Active power	Fixed limit, set point curves, remotely controlled			
Reactive power	Constant, set point curves, remotely controlled			
Interfaces	Communication: Ethernet, RS-485 and CAN.			
PV grounding	Field configurable, positive & negative grounded			
RCD compatibility	Type A, 30 mA			
Cooling concept	Convection			
Safety				
Approvals and certificates	see www.danfoss.com/solar -> downloads			
Electrical Safety	IEC 62109-1/IEC 62109-2 (Class I, grounded – communication part Class II, SELV)			
Functional Safety	Islanding detection/ loss of mains - active frequency shift, Voltage and frequency surveillance, DC content of AC current surveillance, Insulation resistance surveillance			

¹⁾ At rated grid voltage

²⁾ At rated grid voltage, $\cos\phi=1$



Efficiency DLX Series 4.6 kW

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