



Duraluxe Sun Series Solar Inverters: Three-Phase
Technical Data sheet



DURALUXE SUN

100KT / 250KT / 500KT

	DS 100KT	DS 250KT	DS 500KT
Input (DC)			
Nominal power DC	110kWp	275kWp	550kWp
DC voltage range,MPPT	450-820V	450-820V	450-820V
Max. permissible DC voltage	880V	880V	880V
Max. permissible DC current	230A	600A	1200A
Number of DC inputs	4	8	16
Output (AC)			
Nominal AC output power	100kW	250kW	500kW
Operating grid voltage	400V	400V	400V
Grid voltage range	340-440V	340 – 440V	340 – 440V
Operating range,grid frequency	50Hz/ 60Hz	50Hz/ 60Hz	50Hz/ 60Hz
Current THD	<2.5% at nominal power	<2.5% at nominal power	<2.5% at nominal power
Power factor	≥0.998 at nominal power	≥0.998 at nominal power	≥0.998 at nominal power
Efficiency			
Max. efficiency	97.1% (with transformer)	97.3% (with transformer)	97.5% (transformerless)
Euro efficiency	96.4% (with transformer)	96.6% (with transformer)	96.8% (transformerless)
MPPT adaptation efficiency	>99%	>99%	>99%
Dimensions and Weight			
Width/Height/Depth in mm	1200/2000/840	2400/2000/850	3800/2160/850
Weight	approx.950kg	approx.1000kg	approx.1500kg
Display and Communications			
Display	LCD	LCD	LCD
Standard comm. interfaces	RS485	RS485	RS485
Optional comm. interfaces	Ethernet	Ethernet	Ethernet
General data			
Permissible ambient temperatures	– 20°C ~ + 45°C	– 20°C ~ + 45°C	– 20°C ~ + 45°C
Relative humidity	0-95%, non condensing	0-95%, non condensing	0-95%, non condensing
Protection rating	IP20, Indoor	IP20, Indoor	IP20, Indoor
Cooling concept	Regulated cooling	Regulated cooling	Regulated cooling
Power consumption at night	<30W	<100W	<100W

