



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



# **DURALUXE SUN**

250KTL/ 500KTL/ 1000KH

|                                   | DS 250KTL                  | DS 500KTL                  | DS 1000KH                 |
|-----------------------------------|----------------------------|----------------------------|---------------------------|
| <b>Input ( DC )</b>               |                            |                            |                           |
| Nominal power DC                  | 275kWp                     | 550kWp                     | 1100kWp                   |
| DC voltage range,MPPT             | 450-820V                   | 450-820V                   | 450-820V                  |
| Max. permissible DC voltage       | 880V                       | 880V                       | 880V                      |
| Max. permissible DC current       | 600A                       | 1200A                      | 2400A                     |
| Number of DC inputs               | 8                          | 16                         | 32                        |
| <b>Output ( AC )</b>              |                            |                            |                           |
| Nominal AC output power           | 250kW                      | 500kW                      | 1000kW                    |
| Operating grid voltage            | 270V                       | 270V                       | 270V                      |
| Grid voltage range                | 230-300V                   | 230-300V                   | 230-300V                  |
| 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   |
| <b>Efficiency</b>                 |                            |                            |                           |
| Max. efficiency                   | 98.3% ( with transformer ) | 98.7% ( with transformer ) | 98.7% ( transformerless ) |
| Euro efficiency                   | 97.4% ( with transformer ) | 97.9% ( with transformer ) | 97.9% ( transformerless ) |
| MPPT adaptation efficiency        | >99%                       | >99%                       | >99%                      |
| <b>Dimensions and Weight</b>      |                            |                            |                           |
| Width/Height/Depth in mm          | 1400/2160/850              | 2400/2160/850              | 8700/3000/2400            |
| Weight                            | approx.1200kg              | approx.2300kg              | approx.10000kg            |
| <b>Display and Communications</b> |                            |                            |                           |
| Display                           | LCD                        | LCD                        | LCD                       |
| Standard comm. interfaces         | RS485                      | RS485                      | RS485                     |
| Optional comm. interfaces         | Ethernet                   | Ethernet                   | Ethernet                  |
| <b>General data</b>               |                            |                            |                           |
| Permissible ambient temperatures  | - 25°C ~ + 55°C            | - 25°C ~ + 55°C            | - 25°C ~ + 55°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        | <100W                      | <100W                      | <100W                     |

