LUNA2000-200KTL Series
Smart PCS



Max. Efficiency 99%

Modular Design

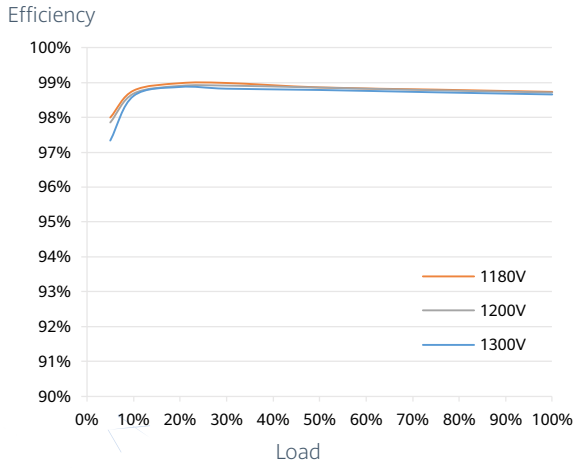
IP66 Protection

Surge Arresters for DC & AC

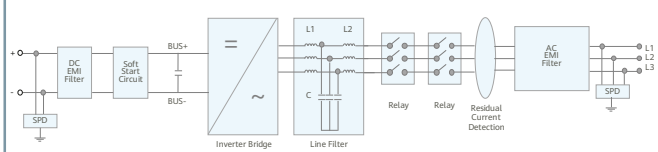
Ethernet Communication

Smart Grid Algorithm

Efficiency Curve



Circuit Diagram



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Technical Specifications

Model	LUNA2000-200KTL-H0	LUNA2000-200KTL-H1
Efficiency		
Max. Efficiency	99.0%	
DC Side		
Rated DC Voltage	1,180 V	
Max. DC Voltage	1,500 V	
Operating DC Voltage Range	1,180 V ~ 1,500 V	
Max. DC Current	207.6 A	
Max. Number of Inputs	1	
AC Side		
Rated AC Active Power	200,000 W @40°C	
Rated AC Voltage	800 V	
Rated AC Grid Frequency	50 Hz / 60 Hz	
Max. AC Current	173.2 A	
Adjustable Power Factor Range	-1 ... +1	
Max. Total Harmonic Distortion	THD_i <1% (Rated)	
Black Start	-	Yes
Protection		
AC Overcurrent Protection	Yes	
DC Reverse-polarity Protection	Yes	
Insulation Resistance Detection	Yes	
Residual Current Protection	Yes	
DC Surge Protection [1]	Type II	
AC Surge Protection [1]	Type II	
Communication		
Display	LED Indicators, WLAN + APP	
USB	Yes	
Ethernet	Yes	
General		
Dimensions (W x H x D)	875 x 820 x 365 mm	
Weight	< 99 kg	
Operating Temperature Range	-25°C ~ 60°C	
Cooling Method	Smart Air Cooling	
Max. Operating Altitude without Derating	4,000 m	
Relative Humidity	0 ~ 100% (Non-condensing)	
DC Connector	OT / DT Terminal	
AC Connector	OT / DT Terminal	
Protection Degree	IP66	
Anti-corrosion Degree	C5-Medium	
Topology	Transformerless	
Standards Compliance		
RoHS, IEC 62477-1, IEC 61000-6-2, IEC 61683, VDE 4120, EN 50549, etc.		

1 - Compatible Type II protection class according to IEC / EN 61643-11

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