

LUNA2000-100KTL-M1 Smart PCS



Surge Arresters for
DC & AC



Modular Design



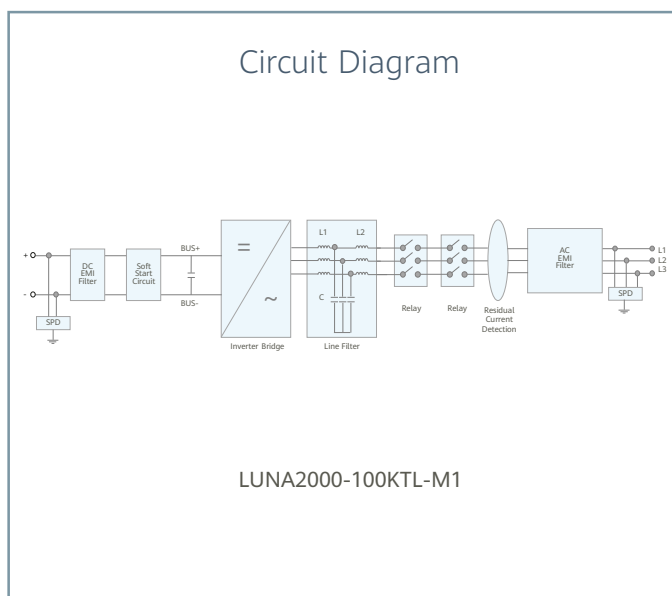
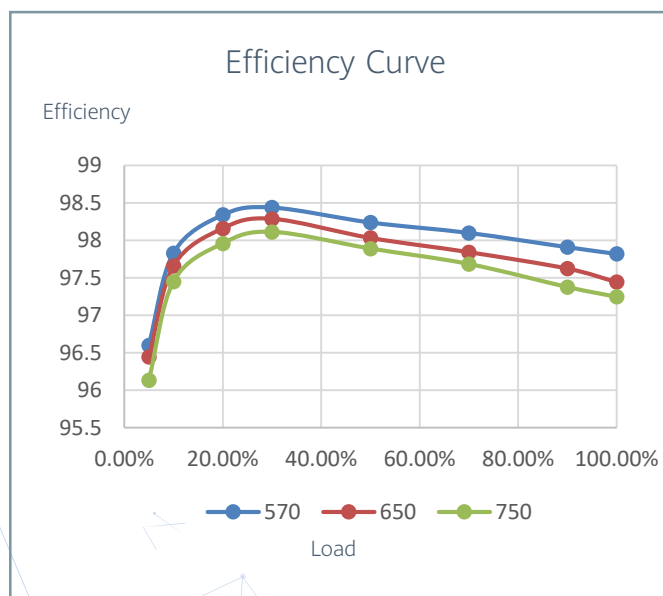
IP66 Protection



Ethernet
Communication



Smart Grid
Algorithm



LUNA2000-100KTL-M1

Technical Specifications



Efficiency	
Max. Efficiency	98.4%
DC Side	
Rated DC Voltage	645 V
Max. DC Voltage	1,100 V
Operating DC Voltage Range	570 V ~ 1100 V
Max. DC Current	215.8 A
Max. Number of Inputs	1
AC Side	
Rated AC Active Power	100k W @40°C
Rated AC Voltage	380 Vac / 400 Vac / 440 Vac
Rated AC Grid Frequency	50 Hz / 60 Hz
Max. AC Current	139.8 A (LUNA2000 - 97KWH-1H1) / 173.2 A (LUNA2000 - 129/161KWH-2H1)
Adjustable Power Factor Range	-1 ... +1
Max. Total Harmonic Distortion	< 3%
Protection	
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
Insulation Resistance Detection	Yes
Residual Current Protection	Yes
DC Surge Protection	Type II
AC Surge Protection	Type II
Communication	
Display	LED Indicators, WLAN + APP
Networking Mode	Ethernet, CAN
General	
Dimensions (W x H x D)	875 x 820 x 365 mm
Weight	< 95 kg
Operating Temperature Range	-25°C ~ 60°C (Derating above 40°C)
Cooling Method	Smart Air Cooling
Max. Operating Altitude without Derating	4,000 m
Relative Humidity	0 ~ 100%
DC Connector	OT/DT Terminal
AC Connector	OT/DT Terminal
Protection Degree	IP66
Topology	Transformerless

Typical System Configurations



Energy Volume kWh (Up to 3,870 kWh)	Recommended Combination of Models				
967.5					12 * 5p
935.3					12 * 4p + 10
903.0					12 * 4p + 8
870.8					12 * 4p + 6
838.5					12 * 3p + 8 * 2p
806.3					12 * 3p + 8 + 6
774.0				12 * 4p	6 * 8p
741.8				12 * 3p + 10	
709.5				12 * 3p + 8	
677.3				12 * 3p + 6	
645.0				12 * 2p + 8 * 2p	
612.8				12 * 2p + 8 + 6	
580.5			12 * 3p	6 * 6p	
548.3			12 * 2p + 10		
516.0			12 * 2p + 8		
483.8			12 * 2p + 6		
451.5			12 + 8 * 2p		
419.3			12 + 8 + 6		
387.0		12 * 2p	6 * 4p		
354.8		12 + 10			
322.5		12 + 8			
290.3		12 + 6			
258.0		8 * 2p			
225.8		8 + 6			
193.5	12	6 * 2p			
161.3	10				
129.0	8				
96.8	6				
Power (Up to 2000kW)	100 kW	200 kW	300 kW	400 kW	500 kW
Smart String ESS (Up to 20x)	1x	2x	3x	4x	5x

Note

1. The four capacity models can be used together. A maximum of 20 ESSs can be connected in parallel. This table only demonstrates the scenario where 5 or less ESSs are connected in parallel.
2. When different capacity models are used together, the system's C rate is subject to the model with the lowest C rate. For example, if LUNA2000-97KWH-1H1, LUNA2000-129KWH-2H1, LUNA2000-161KWH-2H1, and LUNA2000-200KWH-2H1 are connected in parallel, the system's C rate is $\leq 0.5C$.
3. 6, 8, 10 and 12 refer to the number of battery packs contained in different models, that is, LUNA2000-97KWH-1H1, LUNA2000-129KWH-2H1, LUNA2000-161KWH-2H1, LUNA2000-200KWH-2H1.