

Technical data

Model (SUNFOREST)	500KTL	500KT	630KTL	630KT
Input (DC Side)				
Max. DC input Power (kW)	570	570	715	715
Max. DC voltage (Vdc)	1000			
MPPT operating range (Vdc)	450~820 (start voltage 470Vdc)		500~820 (start voltage 520Vdc)	
Number of parallel inputs	12			
Number of MPPT trackers	1			
Max. input current (A)	1200	1200	1400	1400
Output (AC Side)				
Nominal output power (kW)	500	500	630	630
Max. output power (kW)	550	550	693	693
Nominal output current (A)	1070	725	1155	910
Max. output current (A)	1177	800	1270	1000
Nominal AC output voltage (Vac)	270	400	315	400
AC output voltage range (Vac)*	243~297	360~440	283~347	360~440
AC grid frequency range (Hz)*	50±5			
Power factor (cosφ)	0.9 (leading)~0.9 (lagging)			
THDI	<3% (at nominal output power)			
Efficiency				
Max. efficiency	98.5%	97.3%	98.6%	97.5%
Euro. efficiency	98.0%	96.6%	98.2%	97.0%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
System				
Operating temperature (°C)	-25~+60 (derated power above 50°C)			
Altitude (m)	6000 (derated power above 3000m)			
Noise (typical) [dB (A)]	≤65			
Consumption at night (W)	<100			
Electrical isolation	Transformerless	Transformer	Transformerless	Transformer
Cooling concept	Fan cooling			
Degree of protection	IP20			
Communication	RS485			
Dimension (W*D*H mm)	1700*900*1850	2900*900*1850	1700*900*1850	2900*900*1850
Weight (kg)	1427	6600	1677	6600

*AC grid voltage range and frequency range depend on local standards.