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Technical Specifications

Efficiency

Item	SUN200 0-250KT L-H3	SUN200 0-280KT L-H0	SUN200 0-300KT L-H0	SUN200 0-330KT L-H1	SUN200 0-330KT L-H2	SUN200 0-250KT L-H1
Maximum efficiency	99.01%	99.01%	99.01%	99.01%	99.01%	99.01%
Chinese efficiency	98.52%	98.52%	98.52%	-	-	-
European efficiency	-	-	-	98.8%	98.8%	98.8%

Input

Item	SUN200 0-250KT L-H3	SUN200 0-280KT L-H0	SUN200 0-300KT L-H0	SUN200 0-330KT L-H1	SUN200 0-330KT L-H2	SUN200 0-250KT L-H1
Maximum input voltage	1500 V					
Maximum input current (per MPPT)	65 A					

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Maximum short-circuit current (per MPPT)	115 A					
Minimum operating voltage/ startup voltage	500 V/550 V					
MPP voltage range	500–1500 V					
Rated input voltage	1080 V					
Number of inputs	28					
Number of MPPTs	6					

Output

Item	SUN200 0-250KT L-H3	SUN200 0-280KT L-H0	SUN200 0-300KT L-H0	SUN200 0-330KT L-H1	SUN200 0-330KT L-H2	SUN200 0-250KT L-H1
Rated output power	250 kW	280 kW	300 kW	300 kW	275 kW	250 kW
Maximum apparent power	275 kVA	308 kVA	330 kVA	330 kVA	330 kVA	275 kVA
Maximum active power (cosφ = 1)	275 kW	308 kW	330 kW	330 kW	330 kW	275 kW

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Rated output voltage	800 V AC, 3W+PE					
Rated output current	180.5 A	202.1 A	216.6 A	216.6 A	198.5 A	180.5 A
Adapted power grid frequency	50 Hz			50 Hz/60 Hz		
Maximum output current	198.5 A	222.3 A	238.2 A	238.2 A	238.2 A	198.5 A
Power factor	0.8 leading and 0.8 lagging					
Maximum total harmonic distortion (rated power)	< 1%					

Protection

Item	SUN200 0-250KT L-H3	SUN200 0-280KT L-H0	SUN200 0-300KT L-H0	SUN200 0-330KT L-H1	SUN200 0-330KT L-H2	SUN200 0-250KT L-H1
Input DC switch	Supported					
Anti-islanding protection	Supported					
Output overcurrent protection	Supported					

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Input reverse connection protection	Supported					
PV string fault detection	Supported					
DC surge protection	Type II					
AC surge protection	Type II					
Insulation resistance detection	Supported					
Residual current monitoring unit (RCMU)	Supported					

Display and Communication

Item	SUN200 0-250KT L-H3	SUN200 0-280KT L-H0	SUN200 0-300KT L-H0	SUN200 0-330KT L-H1	SUN200 0-330KT L-H2	SUN200 0-250KT L-H1
Display	LED indicators					
RS485	Supported					
MBUS	Supported					
USB	Supported					
WLAN +App	Supported					

General Specifications

Item	SUN200 0-250KT L-H3	SUN200 0-280KT L-H0	SUN200 0-300KT L-H0	SUN200 0-330KT L-H1	SUN200 0-330KT L-H2	SUN200 0-250KT L-H1			
Dimensions (W x H x D)	1048 mm x 732 mm x 395 mm								
Net weight	112 kg								
Operating temperature	-30°C to +60°C			-25°C to +60°C					
Cooling mode	Smart air cooling								
Maximum operating altitude	5000 m (derated when the altitude is greater than 4000 m)								
Relative humidity	0%–100% RH								
Input terminal	CT75A-1T-34/CT75A-1T-35 (AVIC JONHON)			HH4SFD4TMS/HH4SMD4TMS					
Output terminal	Waterproof terminal+OT/DT terminal								
IP rating	IP66								
Self-consumption at night (sleep mode)	4.8 W								