Fusionsolar C&I SmartPV Solution SUN5000 Series





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Fechnical Specification	SUN	5000-150K-MG0	
		Efficiency	
Max. efficiency	08 606	@400V, 98.8% @480V	
European efficiency	98.070	98.4%	
European enciency			
		Input	
Max. Input Voltage	1,100 V		
Max. Short Circuit Current		66 A	
Operating Voltage Range		200 V ~ 1,000 V	
Max. input number		12	
		Output	
Nominal AC Active Power		150,000 W	
Max. AC Apparent Power		165,000 VA	
Max. AC Active Power (cos ϕ =1)	20	165,000 W	
Nominal Output Voltage	38	30 V/400 V/480Vac	
Rated AC Grid Frequency	227.0.1.0000.1/1	50 Hz / 60 Hz	
Nominal Output Current		216.5 A @400 V, 180.4A @480Vac	
Max. Output Current		240.5 A @400 V, 200.5A @480Vac	
Adjustable Power Factor Range	0.8 l	eading 0.8 lagging	
alternating current THDi		<1%	
		Protection	
Anti-islanding Protection	Yes		
AC Overcurrent Protection	Yes		
DC Surge Arrester	Type II		
AC Surge Arrester	Type II		
DC Insulation Resistance Detection	Yes		
Residual Current Monitoring Unit	Yes		
Smart String Level Disconnector	Yes		
Arc Fault Protection	Yes		
Smart Connector Temperature Detector	Yes		
PID Recovery	Yes		
PV Ground-Fault Protection		Yes	
	Col	mmunication	
Display	LED indicators; WLAN adaptor + FusionSolar APP		
RS485 / USB	Yes		
Smart Dongle-4G	Smart Dongle – 4G / WLAN (Optional)		
Monitoring BUS (MBUS)	Yes (Isolation Transformer Required)		
	General Data		
Dimensions (W x H x D)	1,000 x 710 x 395 mm		
Weight (with mounting plate)	102 kg		
Operating Temperature Range	-25°C ~ 60°C		
Cooling Method	Smart Air Cooling		
Max. Operating Altitude	4,000 m (13,123 ft.)		
Relative Humidity	0~100%		
DC Connector	Amphenol HH4		
AC Connector	Waterproof Connector + OT/DT Terminal		
Protection Degree		IP66	
		e (more available upon r	
Certificate	EN 62109-1/-2, IEC 62109-1/-2, IEC 62116, IEC 61727, IEC 60068, IEC 61683		
Grid Connection Standards	VDE-AR-N4105, EN 50549	9-1, EN 50549-2, RD 661, RD 1699, C	210/11
ring Configuration (Full Ontimizer Configuration) 7/8/9	SUN5000-150KTL-MG0	1000	Short Input Cable Ve
	50115000-150KTL-WIG0		Shore input cubic vi
ring Configuration (Full Optimizer Configuration) ^{7/8/9} /IERC-1100/1300W-P support full optimizer configuration on	, SUNSUUD-TSUKTE-INIGU	5.1 m	Shore input cubic ve

Maximum optimizers per string

Maximum DC power per string

*1 The maximum power of PV module at STC shall NOT exceed the "Rated input DC power" of MERC -1100/1300W-P. PV Modules with up to +5% power tolerance are allowed.
*2 Any power optimizer, which is connected to an operating inverter in a PV string, will be bypassed when it fails.
*3 When the MERC -1100/1300W-P is disconnected from inverter or when the inverter is off, its output voltage will be 1 V.
*4 It is for PV module fame/extruded aluminum profile racking system installation.
*5 Pay attention to PV module wire length. To match PV modules with a split junction box and short output wire, the long-input-cable version (input wire: 1.3 m(+/-); output wire 0.1m(+)/2.9m (-)) of MERC -1100/1300W-P is available upon request.

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20,000 W

 is available upon request.
 % When the operating temperature of the MERC -1100/1300W-P reaches 70 °C to 85 °C, it may shut down due to over-temperature protection and report an over-temperature alarm. After the temperature decreases, it can automatically resume working without any damage.
 *7 Each PV module under the same inverter must be equipped with a MERC -1100/1300W-P.
 *8 SUN2000-450W-P2/600W-P and MERC -1100/00W-P can NOT be used in mixture under the same Smart Energy/PV controller.
 *9 Its recommended that strings under the same inverter must not exceed 2 kW. Otherwise, the energy yield will be redeveded. redwise datasheet only shows Preliminary Version, the information may change. Please contact with HWlocal supplier for the latest version