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Datasheets

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A Value Added Partnership

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Huawei, a global leader in solar technology, information and communication technology infrastructure, and smart devices, employs around 200,000 people and operates in over 170 countries. Huawei FusionSolar solutions ensure highly efficient, safe and reliable solar power plants.

SKE takes over all sales, service and support activities for Huawei FusionSolar in Austria and the SKE countries. As a PV specialist SKE supports customers across Europe in sales, logistics, training, certification and with technical support for all Huawei photovoltaic products.

Photovoltaics is the central technology of the energy transition. It provides people with sustainable, affordable solar power. As a Huawei Value Added Partner and Huawei Service Partner, SKE offers Huawei FusionSolar solutions for Residential, Commercial & Industrial and Utility Scale applications. Huawei FusionSolar Residential is the intelligent and sustainable photovoltaic technology for solar energy generation in all private living areas - in single-family houses, apartment buildings and multi-party residential buildings. Efficient and calculable work in commercial and industrial infrastructures is supported by the solutions from Huawei FusionSolar in the Commercial & Industrial range. Products for large-scale photovoltaic systems can be found in the Huawei FusionSolar Utility Scale performance range.

SKE scores in the PV industry with initiative and expertise and imparts knowledge from experts for experts.

SKE - lead the change.



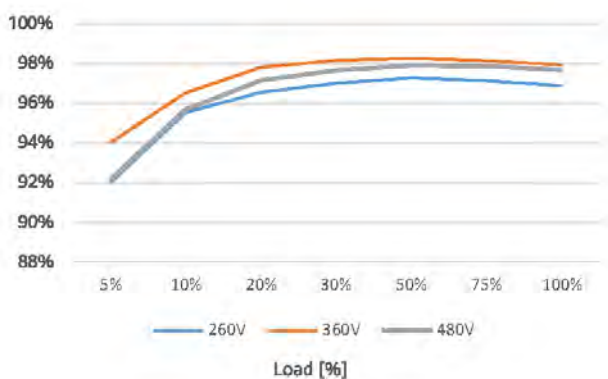


Huawei SUN2000-2/3/3.68/4/4.6/5/6KTL-L1

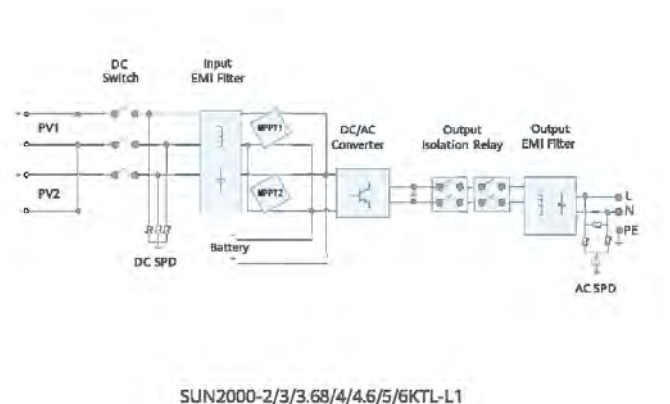


<p>Higher Yields Up to 30 % more energy with optimizers</p>	<p>Active Safety AI Powered Active Arcing Protection</p>	<p>2 x Power Battery Ready 5 kW AC Output plus 5 kW battery charge</p>
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Efficiency curve



Circuit diagram



Huawei SUN2000-2/3/3.68/4/4.6/5/6KTL-L1

Technical Specification	SUN2000 2KTL-L1	SUN2000 3KTL-L1	SUN2000 3.68KTL-L1	SUN2000 4KTL-L1	SUN2000 4.6KTL-L1	SUN2000 5KTL-L1	SUN2000 6KTL-L1
Efficiency							
Max. efficiency	98.2%	98.3%	98.4%	98.4%	98.4%	98.4%	98.4%
European weighted efficiency	96.7%	97.3%	97.3%	97.5%	97.7%	97.8%	97.8%
Input (PV)							
Recommended max. PV power*1	3 000 Wp	4 500 Wp	5 520 Wp	6 000 Wp	6 900 Wp	7 500 Wp	9 000 Wp
Max. input	600 V						
Start-up voltage	100 V						
MPPT operating voltage range	90 V - 560 V						
Rated input voltage	360 V						
Max. input current per MPPT	12.5 A						
Max. short-circuit current	18 A						
Number of MPP trackers	2						
Max. input number per MPP tracker	1						
Input (DC battery)							
Compatible battery	HUAWEI Smart ESS Battery 5 kWh – 30 kWh						
Operating voltage range	350 ~ 560 Vdc						
Max. oper. current	15 A						
Charge power	5 000 W*3						
Max. discharge power	2 200 W	3 300 W	3 680 W	4 400 W	4 600 W	5 000 W	5 000 W
Output (On Grid)							
Grid connection	Single phase						
Rated output power	2 000 W	3 000 W	3 680 W	4 000 W	4 600 W	5 000 W	6 000 W
Max. apparent power	2 200 VA	3 000 VA	3 680 VA	4 400 VA	5 000 VA*5	5 500 VA*6	6 000 VA
Rated output voltage	220 Vac / 230 Vac / 240 Vac						
Rated AC grid frequency	50 Hz / 60 Hz						
Max. output current	10 A	15 A	16 A	20 A	23 A*7	25 A*7	27.3 A
Adjustable power factor	0.8 leading ... 0.8 lagging						
Max. total harmonic distortion	≤ 3 %						
Output (Off Grid)							
Backup Box (Optional)	Backup Box - B0						
Maximum apparent power	2 000 VA	3 000 VA	3 680 VA	4 000 VA	4 600 VA	5 000 VA	5 000 VA
Rated output voltage	220 V / 230V						
Maximum output current	9.1 A	13.6 A	16.7 A	18.2 A	20.9 A	22.7 A	22.7 A
Power factor range	0.8 leading ... 0.8 lagging						
Protection & Features							
Anti-Islanding protection	Yes						
DC reverse polarity protection	Yes						
Insulation monitoring	Yes						
DC/AC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11						
Residual current monitoring	Yes						
AC over current / short-circuit protection	Yes						
AC short-circuit protection	Yes						
AC overvoltage protection	Yes						
Over-heat / arc fault protection	Yes						
Battery reverse charging from grid	Yes						
General Data							
Operating temperature range	-25 ~ +60 °C						
Relative operating humidity	0 % RH -100 % RH						
Max. operating altitude	4.000 m (13.123 ft.) (Derating above 2 000 m)						
Cooling	Natural convection						
Display	LED indicators; integrated WLAN + FusionSolar APP						
Communication	RS485, WLAN via inverter built-in WLAN module Ethernet via Smart Dongle-WLAN-FE (optional); 4G / 3G / 2G via Smart Dongle-4G (optional)						
Weight (incl. mounting bracket)	12.0 kg (26.5 lb)						
Dimension (incl. mounting bracket)	365 mm* 365 mm* 156 mm (14.4 x 14.4 x 6.1 inch)						
Degree of protection	IP65						
Nighttime power consumption	< 2.5 W						
Optimizer Compatibility							
DC MBUS compatible optimizer	SUN2000-450W-P, SUN2000-450W-P2, SUN2000-600W-P						
Standard Compliance (more available upon request)							
Safety	EN/IEC 62109-1, EN/IEC 62109-2						
Grid connection standards	G98, G99, EN 50549-1, CEI 0-21, VDE-AR-N-4105, AS 4777.2, C10/11, ABNT, UTE C15-712, RD 1699, TOR Erzeuger Typ A, IEC61727, IEC62116						

*1 Inverter max input PV power is 10,000 Wp when long strings are designed and fully connected with SUN2000-450W-P power optimizers.

*3 2.500W@5kWh HUAWEI ESS battery

*4 AS4777.2:4,991W. *5 VDE-AR-N 4105:4,600VA / AS47772:4,999VA

*6 AS4777.2:4,999VA

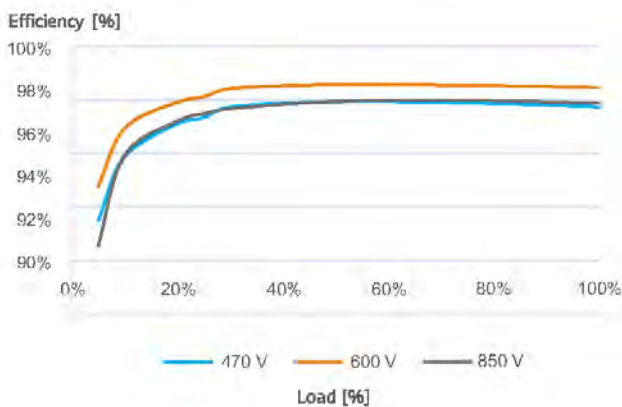
*7 AS4777.2: 21.7A.

Huawei SUN2000-3/4/5/6/8/10KTL-M1 High Current Version

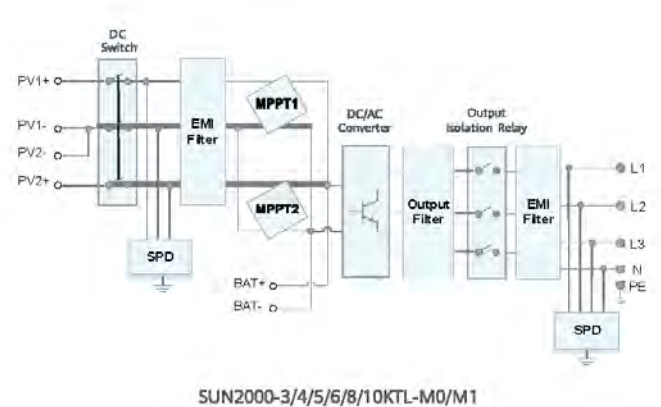


<p>Higher Yields Up to 30% more energy with optimizer</p>	<p>Active Safety AI Powered Active Arcing Protection</p>	<p>Battery Ready Plug & Play Battery Interface*2</p>	<p>Flexible Communication WLAN, fast Ethernet, 4G Communication supported</p>
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Efficiency curve



Circuit diagram



Technical Specification	SUN2000 -3KTL-M1	SUN2000 -4KTL-M1	SUN2000 -5KTL-M1	SUN2000 -6KTL-M1	SUN2000 -8KTL-M1	SUN2000 -10KTL-M1
Efficiency						
Max. efficiency	98.2 %	98.3 %	98.4 %	98.6 %	98.6 %	98.6 %
European weighted efficiency	96.7 %	97.1 %	97.5 %	97.7 %	98 %	98.1 %
Input (PV)						
Recommended max. PV power*1	4 500 Wp	6 000 Wp	7 500 Wp	9 000 Wp	12 000 Wp	15 000 Wp
Max. input voltage*2	1 100 V					
Operating voltage range*3	140 V ~ 980 V					
Start-up voltage	200 V					
Rated input voltage	600 V					
Max. input current per MPPT	13.5 A					
Max. short-circuit current	19.5 A					
Number of MPP trackers	2					
Max. number of inputs	1					
Input (DC Battery)						
Compatible battery	HUAWEI Smart String ESS 5 kWh – 30 kWh					
Operating voltage range	600 V ~ 980 V					
Max. operating current	16.7 A					
Max. charge Power	10 000 W					
Max. discharge Power	3 300 W	4 400 W	5 500 W	6 600 W	8 800 W	10 000 W
Output (On Grid)						
Grid connection	Three-phase					
Rated output power	3 000 W	4 000 W	5 000 W	6 000 W	8 000 W	10 000 W
Max. apparent power	3 300 VA	4 400 VA	5 500 VA	6 600 VA	8 800 VA	11 000 VA*4
Rated output voltage	220 Vac / 380 Vac, 230 Vac / 400 Vac, 3W / N+PE					
Rated AC grid frequency	50 Hz / 60 Hz					
Max. output current	5.1 A	6.8 A	8.5 A	10.1 A	13.5 A	16.9 A
Adjustable power factor	0.8 leading ... 0.8 lagging					
Max. total harmonic distortion	≤ 3 %					
Output (Off Grid)						
Backup Box	Backup Box - B1					
Maximum apparent power	3 000 VA	3 300 VA	3 300 VA	3 300 VA	3 300 VA	3 300 VA
Rated output voltage	220 V / 230 V					
Maximum output current	13.6 A	15 A	15 A	15 A	15 A	15 A
Power factor range	0.8 leading ... 0.8 lagging					
Features & Protections						
Input-side disconnection device	Yes					
Anti-Islanding protection	Yes					
DC reverse polarity protection	Yes					
Insulation monitoring	Yes					
AC/DC surge protection	Yes, compatible TYPE II protection class according to EN / IEC 61643-11					
Residual current monitoring	Yes					
AC overcurrent protection	Yes					
AC short-circuit protection	Yes					
AC overvoltage protection	Yes					
Arc fault protection	Yes					
Ripple receiver control	Yes					
Integrated PID recovery*5	Yes					
Battery reverse charging from grid	Yes					
General Data						
Operating temperature range	-25 ~ +60 °C (-13 °F ~ 140 °F)					
Relative operating humidity	0 % RH -100 % RH					
Max. operating altitude	4 000 m (13 123 ft.) (Derating above 2 000 m)					
Cooling	Natural convection					
Display	LED indicators; integrated WLAN + FusionSolar APP					
Communication	RS485; WLAN/Ethernet via Smart Dongle-WLAN-FE; 4G / 3G / 2G via Smart Dongle-4G (optional)					
Weight (incl. mounting bracket)	17 kg (37.5 lb)					
Dimension (incl. mounting bracket)	length 525 x wide 470 x deep 146.5 mm (20.7 x 18.5 x 5.8 inch)					
Degree of protection	IP65					
Nighttime power consumption	< 5.5 W*6					
Optimizer Compatibility						
DC MBUS compatible optimizer	SUN2000-450W-P, SUN2000-450W-P2, SUN2000-600W-P					
Standard Compliance (more available upon request)						
Safety	EN/IEC 62109-1, EN/IEC 62109-2, IEC 62116					
Grid connection standards	G98, G99, EN 50438, EN50549-1, CEI 0-21, VDE-AR-N-4105, AS 4777, C10/11, ABNT, UTE C15-712, RD 1699, TOR Erzeuger, IEC61727, IEC62116, DEWA					

*1: Inverter max input PV power is 20,000 Wp when long strings are designed and fully connected with SUN2000-450W-P power optimizers.

*2: The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

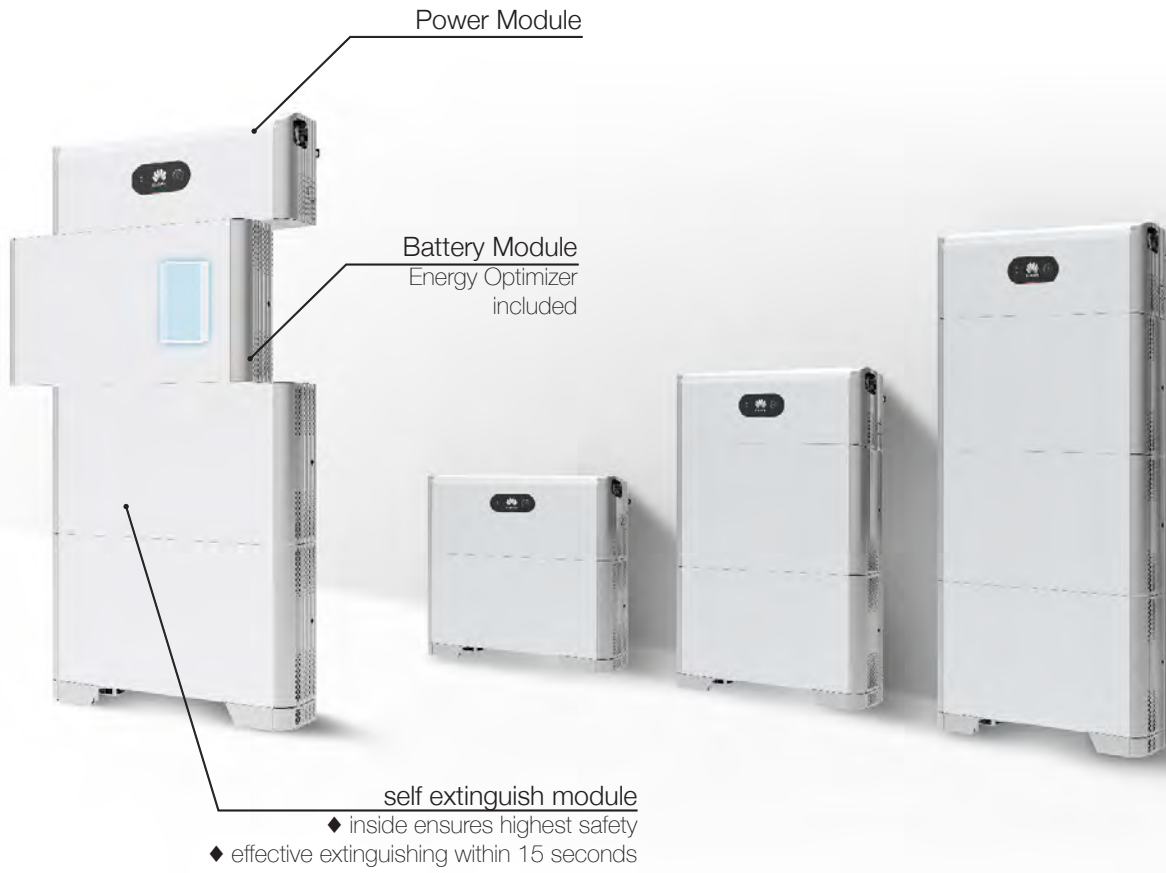
*3: Any DC input voltage beyond the operating voltage range may result in inverter improper operating.







*4: C 10 / 11: 10,000VA

*5: SUN2000-3-10KTL-M1 raises potential between PV-and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly).

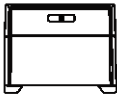
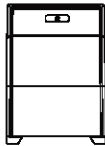

*6: < 10 W when PID recovery funktion is activated.

Huawei LUNA2000-5-10-15-S0



	<p>More Usable Energy 100 % depth of discharge pack level energy optimization</p>		<p>Flexible Investment 5 kWh modular design scalable from 5 to 30 kWh</p>		<p>Safe & Reliable Lithium iron phosphate (LFP) cell</p>
	<p>Easy Installation 12 kg power module 50 kg battery module</p>		<p>Quick Commissioning Automatically detected in App</p>		<p>Perfect Compatibility Compatibility to both residential single & three phase inverters</p>

Huawei LUNA2000-5-10-15-S0

Technical Specification	LUNA2000-5-S0	LUNA2000-10-S0	LUNA2000-15-S0
			
Performance			
Power module	LUNA2000-5 KW-C0		
Number of power modules	1		
Battery module	LUNA2000-5-E0		
Battery module energy	5 kWh		
Number of battery Modules	1	2	3
Battery usable energy*1	5 kWh	10 kWh	15 kWh
Max. output power	2.5 kW	5 kW	5 kW
Peak output power	3.5 kWh, 10 s	7 kWh, 10 s	7 kWh, 10 s
Nominal voltage (single phase system)	450 V		
Operating voltage range (single phase system)	350 V - 560 V		
Nominal voltage (three phase system)	600 V		
Operating voltage range (three phase system)	600 V - 980 V		
Communication			
Display	SOC Status, LED indicator		
Communication	RS485, CAN-BUS (only for parallel operation)		
General Data			
Dimension (W x D x H)	670 x 150 x 600 mm 26.4 x 5.9 x 23.6 inch	670 x 150 x 960 mm 26.4 x 5.9 x 37.8 inch	670 x 150 x 1 320 mm 26.4 x 5.9 x 60.0 inch
Weight (Floor stand toolkit included)	63.8 kg (140.7 lb)	113.8 kg (250.9 lb)	163.8 kg (361.1 lb)
Power module dimension (W x D x H)	670 x 150 x 240 mm (26.4 x 5.9 x 9.4 inch)		
Power module weight	12 kg (26.5 lb)		
Battery module dimension (W x D x H)	670 x 150 x 360 mm (26.4 x 5.9 x 14.0 inch)		
Battery module weight*2	50 kg (110.2 lb)		
Installation	Floor stand (standard), Wall mount (optional)		
Operating temperature*3	-20 °C ~ +55 °C (-4 °F-131 °F)		
Max. operating altitude	4 000 m (13 123 ft.) Derating above 2 000 m		
Environment*4	Outdoor / Indoor (*Please refer to the user manual for installation condition)		
Relative humidity	5 % ~ 95 %		
Cooling	Natural convection		
Protection rating	IP 65		
Noise emission*5	<29 dB		
Cell technology	Lithium-iron phosphate (LiFePO4)		
Scalability	Max. 2 systems in parallel operation		
Compatible inverters	SUN2000L-2/3/3.68/4/4.6/5KTL1, SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-3/4/5/6/8/10KTL-M0*6, SUN2000-3/4/5/6/8/10KTL-M1		
Standard Compliance (more available upon request)			
Certificates	CE, RCM, CEC, VDE2510-50, IEC62619, IEC 60730, UN38.3		
Ordering and Deliverable Part			
Product ordering model*7	LUNA2000-5KW-C0, LUNA2000-5-E0, LUNA2000 Wall mounting bracket		

*1: Test conditions: 100 % depth of discharge (DoD), 0.2C rate charge & discharged 25 °C, at the beginning of life. If no PV modules are installed or the system has not detected sunlight for at least 24 hours, the minimum end of discharge SOC is 15%.

*2: The weight of the battery module is subject to the actual product, with a tolerance of ± 3 %

*3: Refer to battery warranty letter for conditional application.

*4: Improper storage system installation may compromise product warranty and operation safety. Please follow the user manual during the installation, use and maintenance of the storage system.

*5: Noise Level (Typical):< 29 dB (A) @1 m, 30 °C, Power On and Run Stably for 2 Hours

*6: Please contact local engineer for the compatibility between the SUN2000-3/4/5/6/8/10KTL-M0 with the LUNA2000.

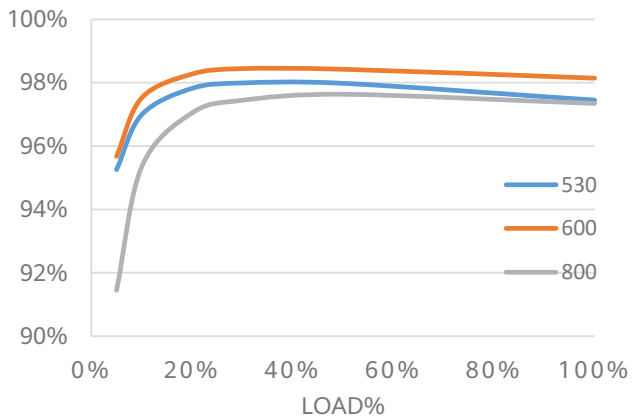
*7: Storage system is ordered and delivered in the form of power module and battery module separately with corresponding quantity.

Huawei SUN2000-12/15/17/20/25KTL-M5

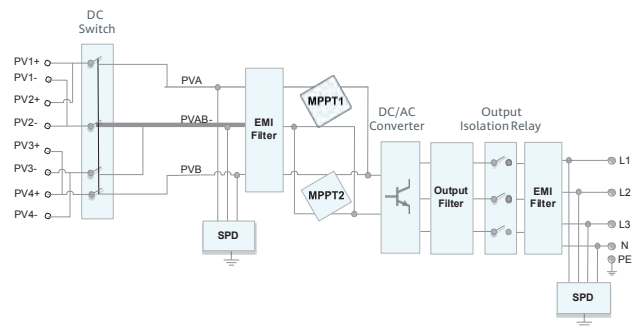


	<p>Higher Yields</p> <p>Up to 30 % more energy with optimizers</p>		<p>Active Safety</p> <p>AI Powered Active Arcing Protection</p>		<p>Flexible Communication</p> <p>WLAN, fast Ethernet, 4G Communication supported</p>
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Efficiency curve



Circuit diagram



SUN2000-12/15/17/20/25KTL-M5

Huawei SUN2000-12/15/17/20/25KTL-M5

Technical Specification	SUN2000 12KTL-M5	SUN2000 15KTL-M5	SUN2000 17KTL-M5	SUN2000 20KTL-M5	SUN2000 25KTL-M5
Efficiency					
Max. efficiency	98,40 %	98,4 %	98,4 %	98,4 %	98,4 %
European weighted efficiency	97,9 %	98,0 %	98,1 %	98,1 %	98,2 %
Input (DC)					
Recommended max. PV power*1	18 000 Wp	22 500 Wp	25 500 Wp	30 000 Wp	37 500 Wp
Max. input voltage*2	1 100 V				
Full-load MPPT voltage range	370V~800V	410V~800V	440V~800V	480V~800V	530~800V
MPPT Operating voltage range*3	200 V ~ 1000 V				
Start-up voltage	200 V				
Rated input voltage	600 V				
Max. input current per MPPT	30 A (two string) / 20 A (single string)				
Max. short-circuit current	40 A				
Number of MPP trackers	2				
Max. number of inputs	4				
Output (AC)					
Three phase					
Rated output power	12 000 W	15 000 W	17 000 W	20 000 W	25 000 W
Max. apparent pow	13 200 VA	16 500 VA	18 700 VA	22 000 VA	27 500 VA
Rated output voltage	220 Vac / 380 Vac, 230 Vac / 400 Vac, 239.6 Vac / 415Vac, 3W + N + PE				
Rated AC grid frequency	50 Hz / 60 Hz				
Max. output current	18.2A/380Vac 17.3A/400Vac 16.7A/415Vac	25.2A/380Vac 23.9A/400Vac 23.1A/415Vac	28.6A/380Vac 27.1A/400Vac 26.1A/415Vac	33.6A/380Vac 31.9A/400Vac 30.8A/415Vac	42.0A/380Vac 39.9A/400Vac 38.5A/415Vac
Adjustable power factor	0.8 leading ... 0.8 lagging				
Max. total harmonic distortion	≤ 3 %				
Features & Protections					
Overvoltage Category	PV II/AC III				
Input-side disconnection device	Yes				
Anti-islanding protection	Yes				
AC over-current protection	Yes				
DC reverse-polarity protection	Yes				
String fault detection	Yes				
DC surge protection	Type II				
AC surge protection	Class II				
Residual current monitoring unit	Yes				
Arc fault protection	Yes				
Ripple control ripple control	Yes				
Integrated PID recovery*4	Yes				
General Data					
Operation temperature range	-25 °C ~ +60 °C (-13 °F ~ 140 °F)				
Relative humidity	0 % RH ~ 100% RH				
Max. operating altitude	4 000 m (13 123 ft.) Derating above 2 000 m				
Cooling	Smart Air Cooling				
Display	LED Indicators; Integrated WLAN + FusionSolar App				
Communication	RS485, WLAN/Ethernet via Smart Dongle-WLAN-FE (optional) 4G / 3G / 2G via Smart Dongle-4G (optional)				
Weight (with mounting plate)	21 kg (46.4 lb)				
Dimensions (W x H x D) (incl. mounting plate)	546 x 460 x 228 mm (21.5 x 18.1 x 9.0 inch)				
Degree of protection	IP66				
Optimizer Compatibility					
DC MBUS compatible optimizer	SUN2000-450W-P2, SUN2000-600W-P, MERC-1100W/1300W-P				
Standard Compliance (more available upon request)					
Safety	EN/IEC 62109-1, EN/IEC 62109-2				
Grid connection standards	G98, G99, EN 50549-1, CEI 0-21, VDE-AR-N-4105, AS 4777.2, C10/11, ABNT, UTE C15-712, RD 1699, TOR Erzeuger, IEC61727, IEC62116				

*1: Inverter max input PV power is 40,000 Wp when long strings are designed and fully connected with SUN2000-450W-P power optimizers..



*2: The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

*3: Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

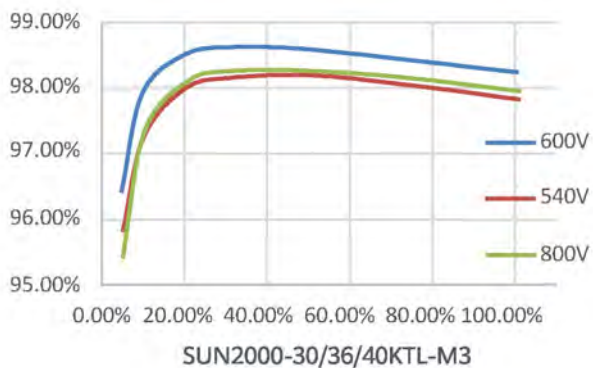
*4: SUN2000-12~20KTL-M2 raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID.
Supported module types include: P-type (mono, poly)

Huawei SUN2000-30/36/40KTL-M3

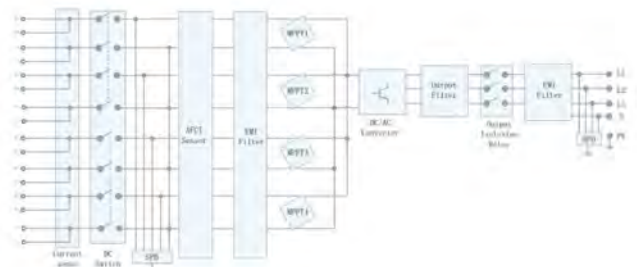


 <p>Efficient Max. efficiency 98.7 %</p>	 <p>Safe Fuse free design</p>	 <p>Smart 8 strings intelligent monitoring</p>	 <p>Reliable Type II surge arresters for DC & AC</p>
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Efficiency curve



Circuit diagram



Huawei SUN2000-30/36/40KTL-M3

Technical Specification	SUN2000 30KTL-M3	SUN2000 36KTL-M3	SUN2000 40KTL-M3
Efficiency			
Max. efficiency	98.7 %		
European efficiency	98.4 %		
Input (PV)			
Max. input voltage*1	1 100 V		
Max. current per MPPT	27 A / 20 A per Input		
Max. short circuit current per MPPT	40 A		
Start voltage	200 V		
MPPT operating voltage range*2	200 V ~ 1 000 V		
Rated input voltage	600 V		
Number of inputs	8		
Number of MPP trackers	4		
Output			
Rated AC active power	30 000 W	36 000 W	40 000 W
Max. AC apparent power	33 000 VA*3	40 000 VA	44 000 VA
Rated output voltage	230 Vac / 400 Vac / 480 Vac, 3W / N+PE		
Rated AC grid frequency	50 Hz / 60 Hz		
Rated output current	43.3 A	52.0 A	57.8 A
Max. output current	47.9 A	58.0 A	63.8 A
Adjustable power factor range	0.8 LG ... 0.8 LD		
Max. total harmonic distortion	≤ 3 %		
Protection & Features			
Input-side disconnection device	Yes		
Anti-islanding protection	Yes		
AC overcurrent protection	Yes		
DC reverse-polarity protection	Yes		
PV-array string fault monitoring	Yes		
DC surge protection	TYPE II		
AC surge protection	TYPE II		
DC insulation resistance detection	Yes		
Residual current monitoring	Yes		
Arc fault protection	Yes		
Ripple receiver control	Yes		
Integrated PID recovery*4	Yes		
Communication			
Display	LED Indicators, Integrated WLAN + FusionSolar APP		
RS485	Yes		
Smart Dongle	WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional)		
General Data			
Dimensions (W x H x D)	640 x 530 x 270 mm (25.2 x 20.9 x 10.6 inch)		
Weight (with mounting plate)	43 kg (94.8 lb)		
Operating temperature range	-25 ~ + 60 °C (-13 °F ~ 140 °F)		
Cooling	Natural Convection		
Max. operating attitude	4 000 m (13 123 ft.) (Derating above 2 000 m)		
Relative operating humidity	0 % RH~ 100 % RH		
DC connector	Amphenol Helios H4		
AC connector	Waterproof Connector + OT/DT Terminal		
Degree of protection	IP 66		
Topology	Transformerless		
Nighttime power consumption	≤ 5.5 W		
Optimizer Compatibility			
DC MBUS compatible optimizer	SUN2000-450W-P, SUN2000-450W-P2, SUN2000-600W-P		
Standard Compliance (more available upon request)			
Safety	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683, IEC 61727, VDE-AR-N4105, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661, RD 1699,		
Grid connection standards	P.O. 12.3, RD 413, EN-50438-Turkey, EN-50438-Ireland, C10/11, MEA, Resolution No.7, NRS 097-2-1, AS/NZS 4777.2, DEWA, TOR Erzeuger		

*1: The maximum input voltage is the upper limit of the DC voltage.
Any higher input DC voltage would probably damage inverter.

*2: Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

*3: For Austria, German& Ukraine the max. AC Apparent Power will not exceed 30 000 VA (with regard to grid code: VDE-AR-N-4105 & Austria)

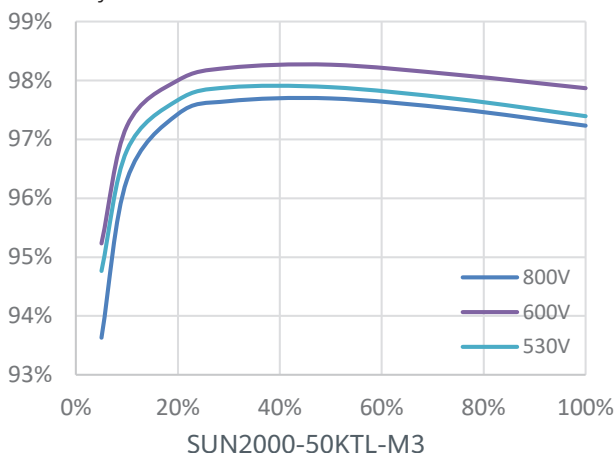
*4: SUN2000-30-40KTL-M3 raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly), N-type (nPERT, HIT)

Huawei SUN2000-50KTL-M3

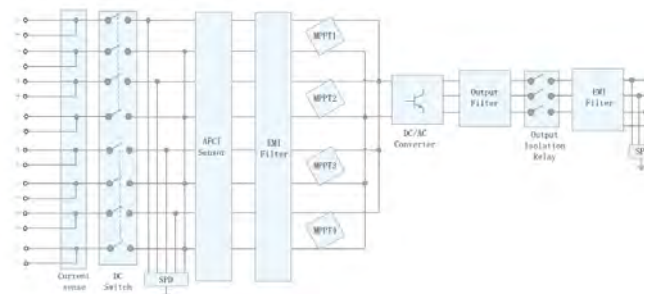


	<p>Higher Yields</p> <p>Up to 30 % more energy with optimizers</p>		<p>Active Safety</p> <p>AI Powered Active Arcing Protection</p>		<p>Flexible Communication</p> <p>WLAN, fast Ethernet, 4G Communication supported</p>
--	---------------------------------------------------------------------------	--	----------------------------------------------------------------------------	--	-------------------------------------------------------------------------------------------------

Efficiency curve



Circuit diagram



Huawei SUN2000-50KTL-M3

Technical Specification		SUN2000-50KTL-M3
		Efficiency
Max. Efficiency		98,5 %
European Efficiency		98,0 %
		Input
Max. Input Voltage*1		1 100 V
Max. Current per MPPT		30 A (per MPPT) / 20 A (per Input)
Max. Short Circuit Current per MPPT		40 A
Start Voltage		200 V
MPPT Operating Voltage Range*2		200 V ~ 1 000 V
Rated Input Voltage		600 V
Number of Inputs		8
Number of MPP Trackers		4
		Output
Rated AC Active Power		50 000 W
Max. AC Apparent Power		55 000 VA
Max. AC Active Power (cosφ=1)		55,000 W
Rated Output Voltage		400 Vac / 480 Vac, 3W+(N) + PE
Rated AC Grid Frequency		50 Hz / 60 Hz
Rated Output Current		72.2 A @ 400Vac, 60.1 A @ 480Vac
Max. Output Current		79.8 A @ 400Vac, 66.5 A @ 480Vac
Adjustable Power Factor Range		0.8 LG ... 0.8 LD
Max. Total Harmonic Distortion		≤ 3 %
		Protection & Features
Input-side Disconnection Device		Yes
Anti-islanding Protection		Yes
AC Overcurrent Protection		Yes
DC Reverse-polarity Protection		Yes
PV-array String Fault Monitoring		Yes
DC Surge Arrester		Type II
AC Surge Arrester		Type II
DC Insulation Resistance Detection		Yes
Residual Current Monitoring Unit		Yes
Arc Fault Protection		Yes
Ripple Receiver Control		Yes
Integrated PID Recovery*4		Yes
		Communication
Display		LED Indicators, Bluetooth + APP
RS485		Yes
Smart Dongle		WLAN/Ethernet via Smart Dongle-WLAN-FE (optional) 4G / 3G / 2G via Smart Dongle-4G (optional)
Monitoring BUS (MBUS)		Yes (Isolation Transformer required)
		General Data
Dimensions (W x H x D)		640 x 530 x 270 mm (25,2 x 20,9 x 10,6 inch)
Weight (with mounting plate)		49 kg (108,1 lb)
Operating Temperature Range		-25 ~ + 60 °C (-13 °F ~ 140 °F)
Cooling Method		Smart Air Cooling
Max. Operating Altitude		4 000 m (13 123 ft.) Leistungsminderung über 2 000 m
Relative Humidity		0 % RH ~ 100 % RH
DC Connector		Amphenol Helios H4
AC Connector		Waterproof Connector + OT/DT Terminal
Protection Degree		IP 66
Topology		Transformerless
Nighttime Power Consumption		≤ 5,5 W
		Optimizer Compatibility
DC MBUS compatible optimizer		SUN2000-450W-P2, SUN2000-600W-P, MERC-1100W/1300W-P
		Standard Compliance (more available upon request)
Safety		EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 60068, IEC 61683
Grid Connection Standards		IEC 61727, VDE-AR-N4105, VDE 4110, VDE 0126-1-1, BDEW, G59/3, UTE C 15-712-1, CEI 0-16, CEI 0-21, RD 661, RD 1699, P.O. 12.3, RD 413, EN-50438-Turkey, EN-50438-Ireland, C10/11, MEA, Resolution No.7, NRS 097-2-1, DEWA

*1: The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

*2: Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

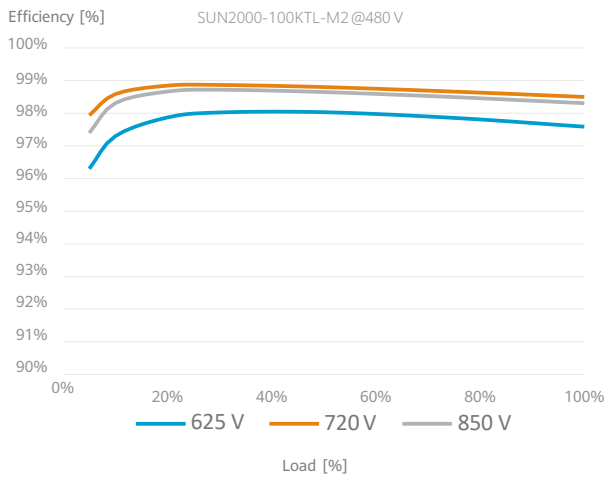
*3: SUN2000-30~50KTL-M3 raises potential between PV- and ground to above zero through integrated PID recovery function to recover module degradation from PID. Supported module types include: P-type (mono, poly), N-type (nPERT, HIT)

Huawei SUN2000-100KTL-M2

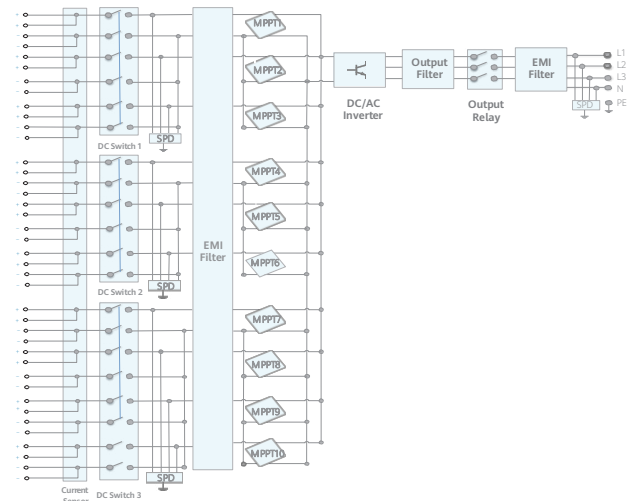


10 MPP tracker	MBUS supported	Smart I-V Curve diagnosis supported	IP 66 protection
Efficient Max. efficiency 98.8 % (@480 V)	Support AFCI & Smart String Level Disconnecter	Smart String-level management	Surge Arrester for DC & AC

Efficiency curve



Circuit diagram



Huawei SUN2000-100KTL-M2

Technical Specification	SUN2000 100KTL-M2
	Efficiency
Max. efficiency	98.6% @ 400 V, 98.8% @ 480 V
European efficiency	98.4% @ 400 V, 98.6% @ 480 V
	Input (PV)
Max. input voltage*1	1 100 V
Max. current per MPPT	30 A
Max. short circuit current per MPPT	40 A
Start voltage	200 V
MPPT operating voltage range*2	200 V ~ 1 000 V
Rated input voltage	600 V @ 400 Vac, 720 V @ 480 Vac
Number of MPP trackers	10
Max. input number per MPP tracker	2
	Output
Rated AC active power	100 000 W
Max. AC apparent power	110 000 VA
Max. AC active power (cosφ=1)	110 000 W
Rated output voltage	400 V/ 480 V, 3W+(N)+PE
Rated AC grid frequency	50 Hz / 60 Hz
Nominal output current	144.4 A @ 400 V, 120.3 A @ 480 V
Max. output current	160.4 A @ 400 V, 133.7 A @ 480 V
Adjustable power factor range	0.8 leading ... 0.8 lagging
Max. total harmonic distortion	< 3 %
	Protection & Features
Input-side disconnection device	Yes
Anti-islanding protection	Yes
AC over-current protection	Yes
DC reverse polarity protection	Yes
PV-array string fault monitoring	Yes
AC/DC surge arrester	Type II
DC insulation resistance detection	Yes
Residual current monitoring	Yes
	Communication
Display	LED indicators; WLAN adaptor + FusionSolar APP
RS485	Yes
USB	Yes
Monitoring BUS (MBUS)	Yes (isolation transformer required)
Smart Dongle-4G	4G / 3G / 2G via Smart Dongle - 4G (Optional)
	General Specification
Dimensions (W x H x D)	1 035 x 700 x 365 mm
Weight (with mounting plate)	93 kg
Operating temperature range	-25 °C ~ + 60 °C (-13 °F ~ 140 °F)
Cooling method	Smart Air Cooling
Max. operating attitude	4 000 m (13 123 ft.)
Relative humidity	0 % RH ~ 100 % RH
DC connector	Amphenol Helios H4
AC connector	Waterproof Connector + OT/DT Terminal
Protection degree	IP 66
Topology	Transformerless
Nighttime Power Consumption	< 3.5 W
	Standard compliance (more available upon request)
Certificates	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683
Grid Code	VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11, TOR Erzeuger

*1: The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

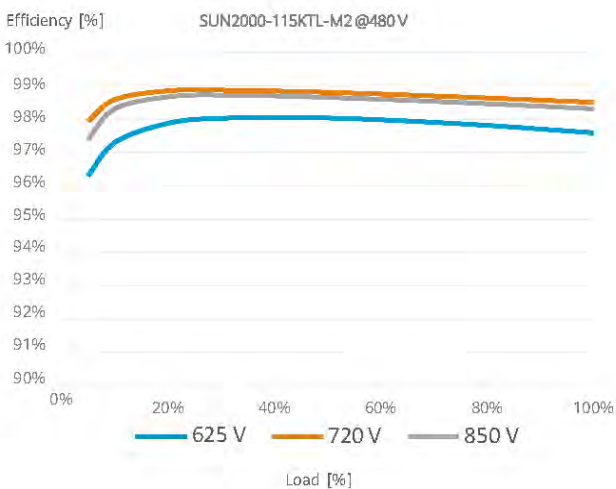
*2: Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

Huawei SUN2000-115KTL-M2

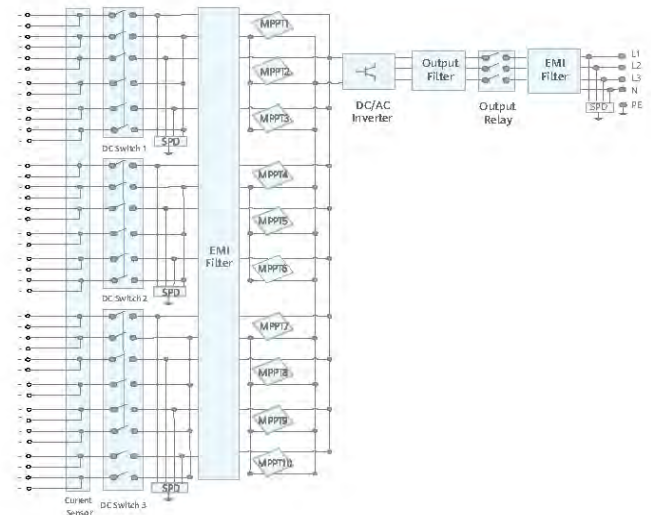


10 MPP tracker	MBUS supported	Smart I-V Curve diagnosis supported	IP 66 protection
Efficient Max. efficiency 98.8 % (@480 V)	Fuse free Design	Smart String-level management	Surge Arrester for DC & AC

Efficiency curve



Circuit diagram



Huawei SUN2000-115KTL-M2

Technische Daten	SUN2000 115KTL-M2
	Efficiency
Max. efficiency	98.6%@ 400V, 98.8%@480V
European efficiency	98.4%@ 400V, 98.6%@480V
	Input
Max. Input Voltage*1	1 100 V
Max. Current per MPPT	30 A
Max. Current per Input	20 A
Max. Short Circuit Current per MPPT	40 A
Start Voltage	200 V
MPPT Operating Voltage Range*2	200 V ~ 1 000 V
Nominal Input Voltage	600V @400 Vac, 720V @480 Vac
Number of MPP trackers	10
Max. input number per MPP tracker	2
	Output
Nominal AC Active Power	115 000 W
Max. AC Apparent Power	125 000 VA
Max. AC Active Power (cosφ=1)	125 000 W
Nominal Output Voltage	400V/480 V,3W+(N)+PE
Rated AC Grid Frequency	50 Hz / 60 Hz
Nominal Output Current	166.0 A @400 V, 138.4A @480 V
Max. Output Current	182.3 A @400 V, 151.9A @480 V
Adjustable Power Factor Range	0.8 leading... 0.8 lagging
Max. Total Harmonic Distortion (THD)	< 3 %
	Protection & Features
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
AC/DC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
Smart String Level Disconnecter	Yes
	Communication
Display	LED indicators; WLAN adaptor + FusionSolar APP
RS485	Yes
USB	Yes
Monitoring BUS (MBUS)	Yes (isolation transformer required)
Smart Dongle-4G	4G / 3G / 2G via Smart Dongle - 4G (Optional)
	General Specification
Dimensions (W x H x D)	1 035 x 700 x 365 mm
Weight (with mounting plate)	93 kg
Operating Temperature Range	-25 °C ~ + 60 °C (-13 °F ~ 140 °F)
Cooling Method	Smart Air Cooling
Max. Operating Altitude	4 000 m (13 123 ft.)
Relative Humidity	0 % ~ 100 %
DC Connector	Stäubli MC4
AC-Connector	Waterproof Connector + OT/DT Terminal
Protection Degree	IP 66
Topology	Transformerless
Nighttime Power Consumption	< 3,5 W
	Standard compliance (more available upon request)
Certificate	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683
Grid Connection Standards	VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11

*1: The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter.

*2: Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

Huawei Backup Box



Simple

Automatic detection & switch over



Reliable

Provide reliable backup power

Huawei Backup Box

Technical Specification	Backup Box-B0	Backup Box-B1
	Output (On Grid)	
Grid connection	Single Phase	Three Phase
Rated voltage	220 V / 230 V	380 V / 400 V
AC frequency	50 Hz / 60 Hz	
AC output voltage range	198 V ~ 253 V	342 V ~ 440 V
	AC Output (Backup)	
Load connection	Single Phase	Single Phase
Rated voltage	220 V / 230 V	220 V / 230 V
AC frequency	50 Hz / 60 Hz	
Maximum apparent power	5 000 VA	3 300 VA
Maximum output current	22.7 A	15.2 A
Switchover time	< 3 s	
	AC Input (Inverter)	
Rated voltage	220 V / 230 V	380 V / 400 V
AC frequency	50 Hz / 60 Hz	
Compatible inverter	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1	SUN2000-3/4/5/6/8/10KTL-M1
	General Specification	
Operating temperature range	-20 °C to + 45 °C (-4 °F to 113 °F)	
Relative humidity	0 % RH -100 % RH	
Dimensions (W x H x D)	400 x 350 x 130 mm (15.8 x 13.8 x 5.1 inch)	
Weight	11 kg	
Protection degree	IP 65	

Huawei Smart Dongle



Smart

G, 3G, 4G communication *1



Simple

Plug & Play
WLAN-APP for local
deploying*3



Reliable

IP65
Support auto
reconnection

Huawei Smart Dongle

Technical Specification	SDongleB-06-EU
	General Specification
Max. Devices Supported	10
Max. Inverters Supported	10
Connection interface	USB
Installation	Plug-and-play
Indicator	LED-Indicator
Dimension (W x D x H)	162 x 48 x 28 mm
Protection degree	IP65
Power consumption (typical)	3,5 W
	Wireless Parameter
Sim card type	mini-sim (15 mm* 25 mm)
Supported standards & frequencies	LTE-FDD: B1/B3/B7/B8/B20/B28
	LTE-TDD: B38/B40/B41
	GSM: 850/900/1800/1900 MHz
Wifi operating mode	AP
Supported standards and frequencies*4	802.11 b/g/n
	Environment
Operating temperature range	-30°C to + 65°C (-22°F to 149°F)
Relative humidity	5 % - 95 %
Storage temperature range	-40°C to + 70 °C (-40°F to 158°F)
Max. operating altitude	4 000 m (13 123 ft.)
	Standard compliance (more available upon request)
Certificates	CE
	Inverter Compatibility
Inverter model	SUN600-5/6KTL-LO, SUN2000-2~6KTL-L1, SUN2000-3~10KTL-M1, SUN2000-8~20KTL-M2, SUN2000-12~25KTL-M5, SUN2000-20~50KTL-M3, SUN2000-50/60KTL-M0, SUN2000-75KTL-M1, SUN2000-100KTL-M0/M1, SUN2000-100/115KTL-M2

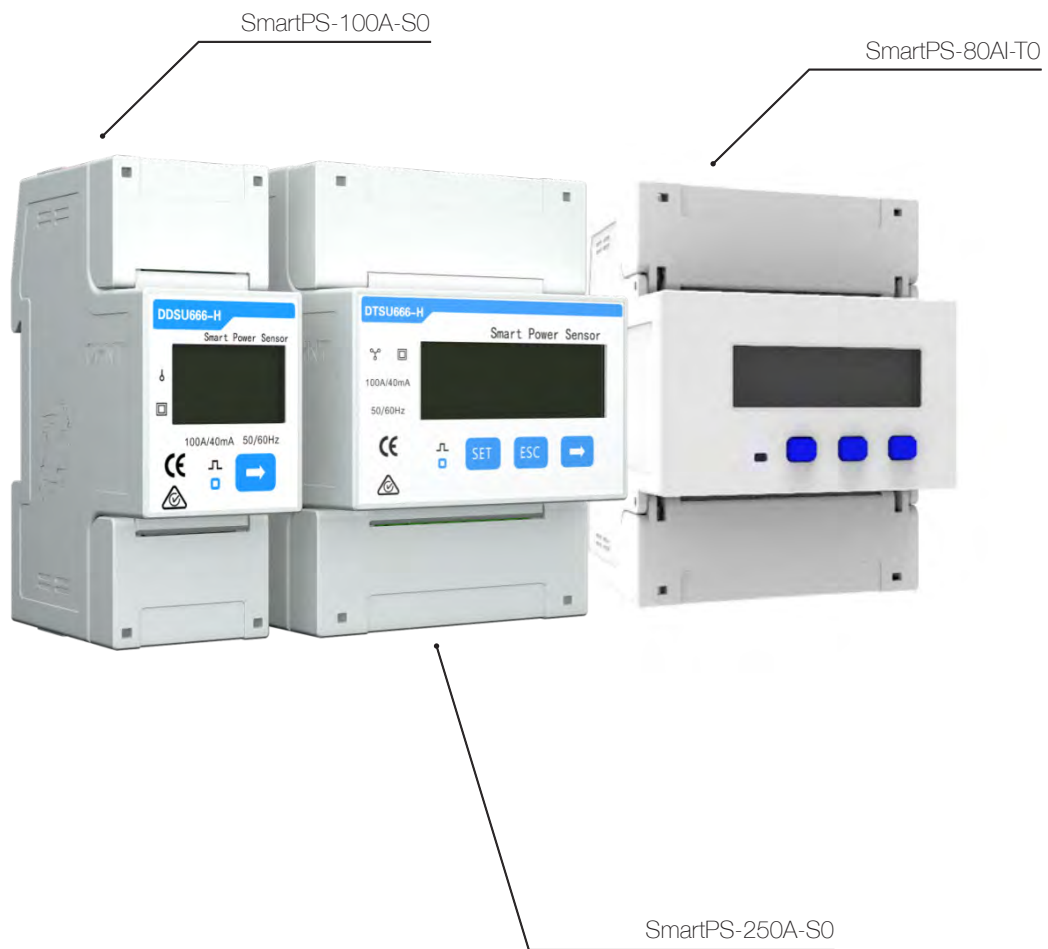
*1: To ensure stable data transmission, Huawei suggests 4G dongle to be installed in areas with stable mobile signal (2G signal 4 bars, 3G/4G signal 3 bars).

*2: 3rd party management system shall match the communication protocol with Huawei Smart Dongle.

*3: When all inverters support WLAN hotspot, hotspot of Dongle will be disabled by default.

*4: For recommended carriers list and details on supported frequencies, please contact local distributors.

Huawei Smart Power Sensor



Accurate
Class 1
measurement
accuracy





Simple & Easy
LCD display, easy to
set and check



Energy Efficient
Overall power
consumption ≤ 1 W

Huawei Smart Power Sensor

Technical Specification	SmartPS-100A-S0	SmartPS-250A-S0	SmartPS-80AI-T0
General Specification			
Dimension (H x W x D)	100 x 36 x 65.5 mm (3.9 x 1.4 x 2.6 inch)	100 x 72 x 65.5 mm (3.9 x 2.8 x 2.6 inch)	100 x 72 x 80 mm (3.9 x 2.8 x 3.1 inch)
Mounting type	DIN35 Rail		
Weight (including cables)	1.2 kg (2.6 lb)	1.5 kg (3.3 lb)	1.5 kg (3.3 lb)
Power Supply			
Power grid type	1P2W	3P4W / 3P3W	3P4W / 3P3W
Input voltage (phase voltage)	176 Vac ~ 288 Vac		90 Vac ~ 500 Vac
Power consumption	≤ 0.8 W	≤ 1 W	≤ 1,5 W
Measurement Range			
Line voltage	/	304 Vac ~ 499 Vac	90 Vac ~ 1000 Vac (> 500 with external PT) *1
Phase voltage	176 Vac ~ 288 Vac		52 Vac ~ 577 Vac
Current	0 ~ 100 A	0 ~ 250 A	0 ~ 80 A (> 80 with external CT) *2
Measurement Accuracy			
Voltage	±0.5 %		
Current / Power / Energy	±1 %		
Frequency	±0.01 Hz		
Communication			
Interface	RS485		
Baud rate	9,600 bps		
Communication protocol	Modbus-RTU		
Environment			
Operating temperature range	-25°C ~ 60°C		
Storage temperature range	-40°C ~ 70°C		
Operating humidity	5% RH ~ 95% RH (non-condensing)		
Others			
Accessories	RS485 Kabel (10 m / 33 ft.)*3		
	1 CT 100 A/40 mA (5 m/16.4 ft.) 	3 CT 250 A/50 mA (5 m/16.4 ft.) 	

*1: 2nd voltage of PT should be 100V and accuracy should be better than Class 0.5.

*2: 2nd current of CT should be 1A or 5A and accuracy should be better than Class 0.5.

*3: SKE recommendation: The supplied cable should not be used as it is not a protected and twisted cable. Otherwise it can lead to errors!

Huawei Smart Charger



PV Power Preferred ^{*1}

Power Your Car with Solar
Make EV Even Greener



Automatic Phase Switch ^{*2}

Automatic Switch between 1
Phase and 3 Phase More Usable
Green Power

3 Ways Authentication

Bluetooth, RFID and APP
Avoid Accidental Charging

Dynamic Charging Power

Automatic Detection and Adjust-
ment No Worry about Overload



All on a Single APP

Full Control Through One APP for
All PV + ESS + Charger

3-Step Installation

Installation in 16 Minutes
and Maintenance

Huawei Smart Charger

Technical Specification	SCharger-7KS-S0	SCharger-22KT-S0
	Inputs and Outputs	
Charge power (configurable)	1.4 kW to 7.4 kW	1.4 kW 3 to 22 kW
Nominal voltage	230 V (1-phase) ± 20%	400 V (3-phase) ± 20%
Nominal current (configurable)	6-32 A (1-phase)	6-32 A (3-phase or 1-phase)
Nominal frequency	50 Hz/60 Hz ± 1 Hz	
Vehicle connection	Type 2	
Cable width	up to 10 mm ²	
Network types	TN, TT, IT	TN, TT
	User Interface & Communications	
Protocol	Modbus TCP	
Communication	Wi-Fi/Ethernet	
Charger status information	WRGB LED, App	
Authentication	RFID (ISO-14443-A), App, Bluetooth	
Remote control & monitoring	App	
Working mode	Normal Charge Scheduled Charge PV Power Preferred	
	Working mode	
Cable protection	Cable E-Lock via App	
Residual current protection (RCD)	Type A (30 mA) + DC 6 mA integrated (IEC 62955 & IEC 61008-1)	
Fire Class	UL94	
Overcurrent protection	IEC 61851-1	
Over-temperature protection	Ja	
Surge protection	CATII	
	General Data	
Operating temperature range	-35 °C to +45 °C	35 °C to +40 °C @ 32A 35 °C to +50 °C @ 16A
Application environment	Outdoor/Indoorn	
Storage temperature	40 °C to + 10 °C	
Relative humidity	5% RH-95% RH	
Altitude	2000 m (derating between 2000~4000 m)	
Dimensions (H x W x D)	335 mm x 180 mm x 145 mm	
Weight	3 kg	3.1 kg
Installation mode	Wall-mounted	
IP rating	IP54	
Impact protection level	IK10	
Standby self-consumption	<6W	
	Standard compliance (more available upon request)	
Standard	EN 61851-1 2019, IEC 62955:2018, IEC 61008-1 2010, IEC/EN 62196-1	
Accessories	RFID Card* 2	

*1: Currently available for free trial and will be notified 30 days in advance, when the function enters the charging phase.

*2: Available in PV Power Preferred Mode.

*3: 1.4 kW for 1-Phase charge and 4. 2 kW for 3-Phase charge.

Huawei Smart PV Optimizer



One-Fits-All
Optimizer
Easier Business



Auto-Mapping
< 5 s Module



Pairing with
Inverter
< 1.5 min



Arc Fault
Pinpoint
Positioning

Huawei Smart PV Optimizer

Technical Specification	SUN2000 450W-P2	SUN2000 600W-P
	Input	
Rated Input DC Power*1	450 W	600 W
Absolute maximum input voltage	80 V	
MPPT operating voltage range	10 - 80 V	
Maximum Short Circuit Current (Isc)	14.5 A	
Max. efficiency	99.5 %	
Weighted efficiency	99.0 %	
Overvoltage category	II	
	Output	
Max. output voltage	80 V	
Max. output current	15 A	
Output bypass*2	Yes	
Shutdown output voltage per optimizer*3	0 V	
Shutdown output impedance per optimizer	1k ohm ± 10 %	
	Standard Compliance	
Safety	IEC62109-1 (class II safety)	
RoHS	Yes	
	General Data	
Dimensions (W x H x D)	75 x 140 x 28 mm (3.0 x 5.5 x 1.1 inch)	
Weight (with mounting plate)	0.6 kg (1.3 lb.)	
Installation part (optional)	Frame Mounting Bracket / T-shaped Bolt	
Input connector	MC4	
Output connector	MC4	
Input wire length	0.15 m (0.5 ft.)	
Output wire length*4	1.3 m (4.3 ft.)	
Operating temperature / humidity range	-40 °C ~ 85 °C*4 / 0 % RH ~ 100 % RH	
Degree of protection	IP 68	
Compatible product	SUN2000-2/3/3.68/4/4.6/5/6KTL-L1, SUN2000-3/4/5/6/8/10KTL-M1, SUN2000-12/15/17/20KTL-M2, SUN2000-30/36/40KTL-M3, SUN2000-12-25KTL-M5	
	Standard compliance (more available upon request)	
Certificate	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 61727, IEC 60068, IEC 61683	
Grid Code	VDE-AR-N4105, EN 50549-1, EN 50549-2, RD 661, RD 1699, C10/11	

450W-P2 / 600W-P Long String Design Rules (Fully optimized)	SUN2000 2-6KTL-L1	SUN2000 3-10KTL-M1	SUN2000 12-20KTL-M2	SUN2000 30-40KTL-M3
Minimum optimizer number per string	4	6	6	6
Maximum optimizer number per string	25	35	35	25
Maximum DC power per string	6 000 W	10 000 W	12 000 W	12 000 W

*1: Rated power of the module at STC shall not exceed "Rated Input DC Power" of power optimizer. Modules with power up to +5% power tolerance are acceptable.

*2: Power optimizer is bypassed in the string connected to an operating inverter when it fails to work

*3: Power optimizer output 0 V DC when disconnecting to the inverter or inverter is shutdown.

*4: Fits PV module in landscape and portrait installation.

Huawei Smart PV Optimizer MERC-1100/1300W-P



One-Fits-All
Optimizer
Optimiererlösung



Arc Fault
Pinpoint
Positioning

Huawei Smart PV Optimizer MERC-1100/1300W-P

Technical Specification	MERC-1100W-P	MERC-1300W-P
	Input	
Rated Input DC Power*1	1100 W-P	1300 W-P
Absolute maximum input voltage	125 V	
MPPT operating voltage range	12,5 - 105 V	
Maximum Short Circuit Current (Isc)	20 A	
Max. efficiency	99,5 %	
Weighted efficiency	99,0 %	
Overvoltage category	II	
	Output	
Max. output voltage	80 V	
Max. output current	20 A	
Output bypass*2	Yes	
Shutdown output voltage per optimizer*3	0 V	
Shutdown output impedance per optimizer	1kΩ ± 10 %	
	Standard Compliance	
Safety	IEC62109-1 (class II safety)	
RoHS	Yes	
	General Data	
Dimension (W x H x D)	85 x 140 x 50 mm (3.3 x 5.5 x 2.0 inch)	
Weight (including cables)	0,8 kg (1,8 lb.)	
Installation part (optional)	PV Module Frame Plate, T-shaped Bolt	
Input connector	MC4	
Output connector	MC4	
Input wire length	0,1 m	
Output wire length	0,1 m (+), 5,1 m (-)*4	
Operating temperature / humidity range	-40 °C ~ 85 °C *5 / 0 % ~ 100 %	
Schutzart	IP 68	
Compatible product	SUN2000-12/15/17/20KTL-M2 SUN2000-30/36/40/50KTL-M3 SUN2000-12/15/17/20/25KTL-M5	

Long String Design (Full Optimizer)	
Minimum optimizer number per string	6
Maximum optimizer number per string	25
Maximum DC power difference per strings	13 500 W

*1: Rated power of the module at STC shall not exceed "Rated Input DC Power" of power optimizer. Modules with power up to +5% power tolerance are acceptable.

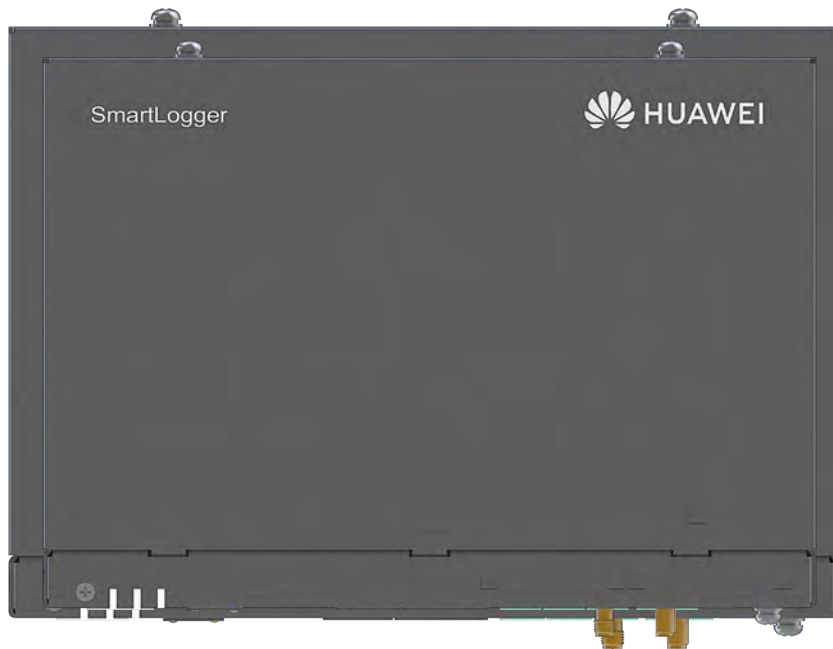
*2: Power optimizer is bypassed in the string connected to an operating inverter when it fails to work.

*3: Power optimizer output 0Vdc when disconnecting to the inverter or inverter is shutdown.

*4: Fits PV module in landscape and portrait installation.

*5: Full power capability refers to online smart design tool.

Huawei Smart Logger



Smart

Connecting up to 150 inverters, One-click commissioning



Simple

Deployment wizard allowed, including parameters configuration, devices connection



Reliable

Safety improvement with built-in lightning protection module

Huawei Smart Logger

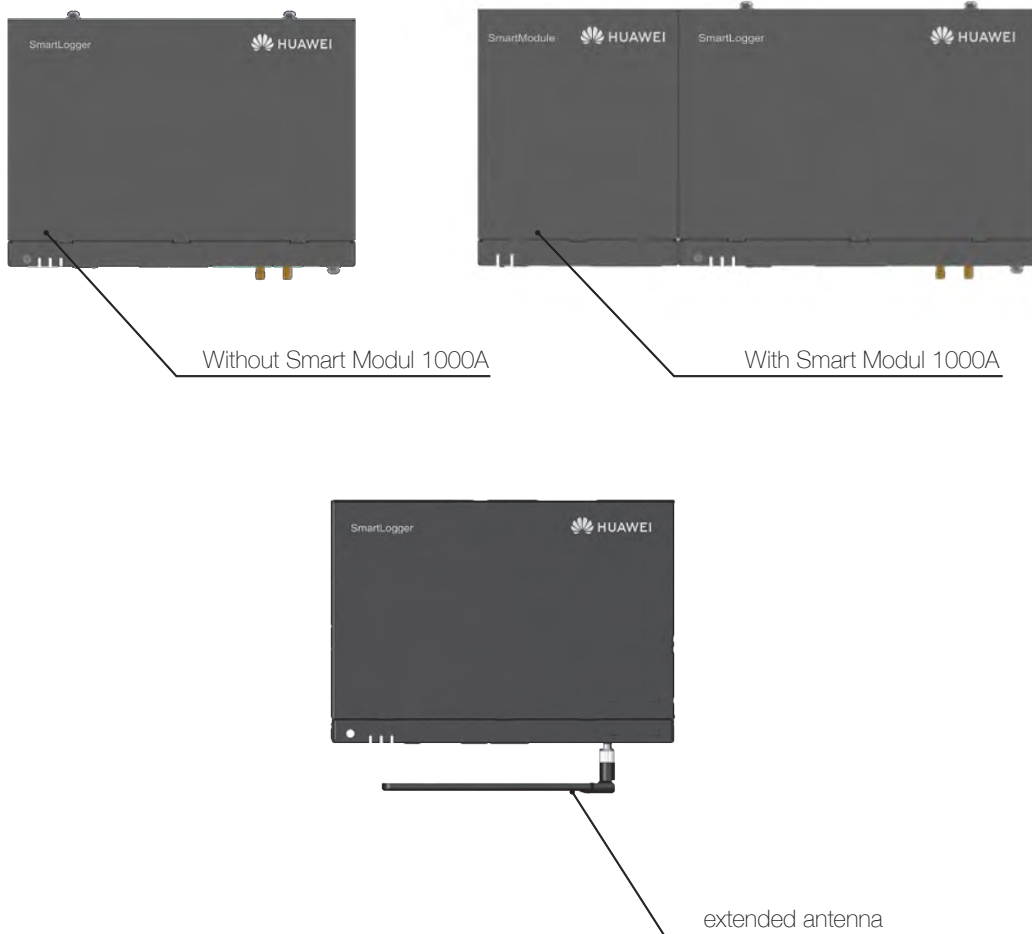
Technical Specification	SmartLogger3000A03EU	SmartLogger3000A01EU
	Device Management	
Max. Number of Connected Devices	80	
	Communication Interface	
WAN	WAN x 1, 10 / 100 / 1 000 Mbps	
LAN	LAN x 1, 10 / 100 / 1 000 Mbps	
RS485	COM x 3, 1 200 / 2 400 / 4 800 / 9 600 / 19 200 / 115 200 bps, 1 000 m	
2G / 3G / 4G*1	LTE (FDD): B1, B2, B3, B4, B5, B7, B8, B20 DC-HSPA+ / HSPA+ / HSPAUMTS: 850 / 900 / 1900 / 2100 MHz GSM / GPRS/EDGE: 850 / 900 / 1800 / 1900 MHz *2	
AC-MBUS	AC-MBUS x 1, 115.2 kbps, Compatible with PLC	No MBUS Communication Interface
Digital / Analog Input / Output	DI x 4, DO x 2, AI x 4	
Aktive DO	12 V, 100 mA (connection with relay, sensor)	
	Communication Protocol	
Ethernet	Modbus-TCP, IEC 60870-5-104	
RS485	Modbus-RTU, IEC 60870-5-103 (standard), DL / T645	
	Interaction	
LED	3 x LED	
WEB	Embedded Web	
USB	USB 2.0 x 1	
APP	Communication by WLAN for Commissioning	
	Environment	
Operating Temperature Range	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	
Storage Temperature	-40 °C ~ 70 °C (-40 °F ~ 158 °F)	
Relative Humidity (Non-condensing)	5 % ~ 95 %	
Max. Operating Altitude	4 000 m (13 123 ft.)	
	Electrical	
AC Power Supply	100 V ~ 240 V, 50 Hz / 60 Hz	
DC Power Supply	12 V / 24 V	
Power Consumption	Typical 8 W, Max. 15 W	
	Mechanical	
Dimensions (W x H x D)	225 x 160 x 44 mm (8,9 x 6,3 x 1,7 inch) without mounting ears and antenna	
Weight	2 kg (4,4 lb.)	
Protection Degree	IP20	
Installation Options	Wall Mounting, DIN Rail Mounting, Tabletop Mounting	

Article	Key features
3000A01EU	no MBUS, Ethernet via RJ45
3000A03EU	MBUS, Ethernet via RJ45
3000B02EU	MBUS, Ethernet via optical fibre

*1: When putting inside metal box, extended antenna will be needed.

*2: For recommended carriers list and details on supported frequencies, please contact local distributors.

Huawei Smart Logger



Smart

Connecting up to 150 inverters, One-click commissioning



Simple

Deployment wizard allowed, including parameters configuration, devices connection



Reliable

Safety improvement with built-in lightning protection module

Huawei Smart Logger

Technical Specification	SmartLogger3000B	SmartLogger3000B Smart Module 1000A
	Device management	
Max. Number of Manageable Devices	200	
Max. Number of Manageable Inverters	150	
	Communication interface	
WAN	WAN x 1, 10 / 100 / 1 000 Mbps	
LAN	LAN x 1, 10 / 100 / 1 000 Mbps	LAN x 3, 10 / 100 / 1 000 Mbps
Optical Ethernet	SFP x 2, 100 / 1 000 Mbps	19 200 / 115 200 bps
Mbus	MBUS x 1, 115.2 kbps, Compatible with PLC	
RS485	COM x 3 1 200 / 2 400 / 4 800 / 9 600 / 19 200 / 115 200 bps	COM x 6 200 / 2 400 / 4 800 / 9 600 / 19 200 / 115 200 bps
Digital / Analog Input / Output	DI x 4, DO x 2, AI x 4	DI x 8, DO x 2, AI x 7
PT100 / PT1000	0	2
Active DO	12 V, 100 mA (connection with relay, sensor)	
Lighting Protection Module	Yes	
	Communication Protocol	
Ethernet	Modbus-TCP, IEC 60870-5-104	
RS485	Modbus-RTU, IEC 60870-5-103 (standard), DL / T645	
	Interaction	
LED	LED Indicator x 3	LED Indicator x 5
WEB	Embedded Web	
USB	USB 2.0 x 1	
APP	Communication by WLAN for commissioning	
	Environment	
Operating temperature range	-40 °C ~ 60 °C (-40 °F ~ 140 °F)	
Storage temperature	-40 °C ~ 70 °C (-40 °F ~ 158 °F)	
Relative humidity (Non-condensing)	5 % ~ 95 %	
Max. operating altitude	4 000 m (13 123 ft.)	
	Electrical	
AC power supply	100 V ~ 240 V, 50 Hz / 60 Hz	
DC power supply	24 V, 0.8 A	
Power consumption	Typical 9 W, Max. 15 W	Typical 10 W, Max. 18 W
	Mechanical	
Dimensions (W x H x D)	225 x 160 x 44 mm (8.9 x 6.3 x 1.7 inch) Without mounting ears	350 x 160 x 44 mm (13.8 x 6.3 x 1.7 inch) Without mounting ears
Weight	2 kg (4.4 lb.)	3 kg (6.6 lb.)
Protection degree	IP20	
Installation options	Wall Mounting, DIN Rail Mounting, Tabletop Mounting, Integrated Inside SmartACU2000D	

Article	Key features
3000A01EU	no MBUS, Ethernet via RJ45
3000A03EU	MBUS, Ethernet via RJ45
3000B02EU	MBUS, Ethernet via optical fibre

*1: When putting inside metal box, extended antenna will be needed.

*2: For recommended carriers list and details on supported frequencies, please contact local distributors.

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SKE – lead the change

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