Smart Energy Center







Active security

Active arc protection based on Al



Superior yields

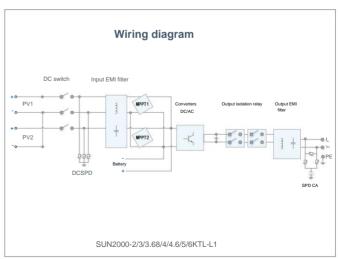
Up to 30%+ energy thanks to optimizers



Double power available for the

battery 5kW for AC output + 5kW for battery recharging





Version No.:03-(20200616)

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

Technical Specifications

Section Sect	echnical specifications	SUN2000 -2KTL-L1	SUN2000 -3KTL-L1	SUN2000 -3.68KTL-L1	SUN2000 -4KTL-L1	SUN2000-4.6	SUN2000 SKTL¶k¶TL-L1	SUN2000 -6KTL-L11	
Martinar distance 98.2% 98.2% 98.4% 98.4% 97.3% 97.3% 97.5% 97.7% 97.8%					Efficiency				
Marting recommended PV owers 2	Maximum efficiency	98.2%	98.3%	98.4%		98.4%	98.4%	98.4%	
Maintain in commenced Pri priver 2 3,000/40 8,000/40 3,100 / 90 / 1 0,000/40 0,000/40 1,000 / 1,									
Maintaine major retigor main For grower 30,0000 4,00000 120	European weighted emciency	30.770	37.070	37.370	37.076	37.776	37.070	37.0 70	
Separate				Inpu	t ÿPVÿ 6,000 Wp 600 \	/			
Section colougies 122.6	Maximum recommended PV power 2	3,000Wp	4,500Wp	5.520Wp		6,900Wp	7,500 Wp	9,000Wp	
MOPT generally values may Number of 160° trackers Max.									
Value No. Processing Value V					12.5 A				
Table									
Table Tabl									
Common					18A				
Input yDC Battery Lip Chem RIBU YDC Battery Lip Chem RIBU YDC YCLY (**PLR S 300 - 450)**									
Comparing camers Sub65000					2				
Comparing camers Sub65000				Input ÿ	DC Battervÿ				
Command of the electricity grid Comm	Compatible battery								
Management 104 871 Ft 754 8 ft 054 Ft Name Art 1947 power 05 101 Ft Name Art 1947 power 05 1				20 0116					
Maintening discharge prover (8 PH_R)									
Maintenand addressings power (8 1941-R) 2,000W 3,500W 3,500W 4,400W 4,000W 5,000W 5,000W 5,000W 5,000W 1,000W 1,00	Max charging power			3,500W @	7H_R / 5,000W @10H_	R			
Marian									
300 - 5600/4cc 156A	Maximum discharge power @ 10H_R	2,200W	3,300W	3.680W	4,400W	4,600W	5,000W	5,000W	
300 - 56074c	Compatible bettery			LIIAMEI Omarii III	100 ESS Batter 5114"	20kWh 4			
Maximum displayed power									
Manamum disalgrang power									
Sample S					5,000W 4				
Comercian to the electricity grid Rated output power 2,000W 3,000W 3,880 W 4,800 W 3,888 QMSQNO W 16 220 Vac / 230 5,000W 5,000W 5,000W 7 Rated output voltage Rated output voltage Normal AG Grid Frequency Maximum Output Current Adjustable Power Factor Mark. Total Harmonic Distortion Backup Power Tyes (vita Backup Boor-B0 1) Protection & Feature Arti-blanding protection DC reverse polarity protection Insulation monitoring OC overorlange protection CD coverollange protection CD coverollange protection Week, compatible with TYPE II protection dists according to EN / IEC 81643-11 AC Over Voltage Protection AC	Maximum discharge power	2,200W	3,300W	3.680W	4,400W	4,600W	5,000W	5,000W	
Comercian to the electricity grid Rated output power 2,000W 3,000W 3,880 W 4,800 W 3,888 QMSQNO W 16 220 Vac / 230 5,000W 5,000W 5,000W 7 Rated output voltage Rated output voltage Normal AG Grid Frequency Maximum Output Current Adjustable Power Factor Mark. Total Harmonic Distortion Backup Power Tyes (vita Backup Boor-B0 1) Protection & Feature Arti-blanding protection DC reverse polarity protection Insulation monitoring OC overorlange protection CD coverollange protection CD coverollange protection Week, compatible with TYPE II protection dists according to EN / IEC 81643-11 AC Over Voltage Protection AC					Evit				
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Rated oilgut voltage Nominal & Coff Enguency Maximum Olipus Current Adjustable Power Factor Nex Total Harmonic Distortion Backup Power Power Protection & Feature Arti-alandring protection Core-responsive protection Power Protection Protec									
Nominal AC Crist Propusory Marianum Output Current Algorithe Prover Freder Now. Total Hamonic Distortion Backup Pener *********************************		2,200 VA	3,300VA	Vac / 240 Vac	30 HZ / 40,04 00020240 A 0.6	capac.y o.gomuuci	5,500VA 7	0,000VA	
May 16 A 16 A 16 A 23 to 8 25 to 8 27.3A									
Power Vese (via Backup Box 80 1)		10 A	15A	16 A		23 to 8	25 to 8	27.3A	
Protection & Feature Anti-standing protection Decreases polarity protection Anti-standing protection Cover-ostage protection Decreases polarity protection Cover-ostage protection Decreases polarity protection Cover-ostage protection Over-ostage protection Over-ostage protection A Over Voltage protection Yes, compatible with TYPE II protection class according to EN /IEC 61643-11 AC Over Voltage protection AC Over-ostage protection AC o									
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Discription of the protection insulation monitoring in Yes, compatible with TYPE II protection class according to EN / IEC 61643-11 AC Over Voltage Protection in Residual current monitoring in Residual Current in Re	Anti-islanding protection				Yup				
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Residual current monitoring AC over current protection AC over votage Protection AC Over Vottage Prote	- 1								
AC other current protection AC short circuit protection AC Over Voltage Protection Overheading protection AFCI arc fault p	· ·		Yes, compatible with TYPE II protection class according to EN / IEC 61643-11						
AC short circuit protection AC Over Voltage Protection AC Over Voltage Protection AC Over Voltage Protection AFCI arc fault protection Reverse charging of the battery from the network TOPERATION OF THE PROTECTION OF THE PROTEC	_								
AC Over Voltage Protection Overheating protection AFCI arc fault protection AFCI arc fault protection AFCI arc fault protection Reverse charging of the battery from the network Ceneral data Operating temperature range Relative operating humidity Operating altitude Operating altitude Operating altitude Operating down Actual convection LED Display Indicators; Integrated WLAN + FusionSolar RS485 APP, WLAN Communication WLAN-FE (eptional); 4G / 3G / 2G via Smart Dongle-4G (optional) 12.0 kg Weight (including mounting bracket) Dimensions (including mounting bracket) Degree of protection Night energy consumption Compatible Optimizer Compatible Optimizer Sunzooo-450W-P Compliance with standards (others available upon request) ENIEC 62109-1, ENIEC 62109-2									
Overheating protection AFCI are fault protection Reverse charging of the battery from the network Ceneral data Operating temperature range Relative operating temperature range Relative operating humidity Operating altitude Operating altitude Operating altitude Operating down Operating altitude Oper									
AFCI are fault protection Reverse charging of the battery from the network General data Operating temperature range -25 - +60°C Relative operating humidity Operating altitude Operati	_				Yup				
Comparing temperature range -25 - +60°C	AFCI arc fault protection				Yup				
Operating temperature range Relative operating humidity Operating altitude Operating altitude Operating altitude Operating altitude Operating down Operating	Reverse charging of the battery from the network				Yup				
Operating temperature range Relative operating humidity Operating altitude Operating altitude Operating altitude Operating altitude Operating down Operating					General data				
Relative operating humidity Operating altitude Oper	Operating temperature research								
Operating altitude Cooling down Natural convection LED Display Indicators; Integrated WLAN + FusionSolar RS485 APP, WLAN Via integrated WLAN module in the inverter Ethernet via Smart Dongle- Weight (including mounting bracket) Dimensions (including mounting bracket) Dimensions (including mounting bracket) Degree of protection Night energy consumption Compatible Optimizer Compatible With DC MBUS Compliance with standards (others available upon request) Safety EN/IEC 62109-1, EN/IEC 62109-2									
Cooling down Natural convection LED Display indicators; Integrated WLAN + FusionSolar RS485 APP, WLAN Communication via integrated WLAN module in the inverter Ethernet via Smart Dongle- WLAN-FE (optional); 4G / 3G / 2G via Smart Dongle-4G (optional) 12.0 kg Weight (including mounting bracket) Dimensions (including mounting bracket) Degree of protection IP65 Night energy consumption <2.5 W Compatible Optimizer Deprimizer compatible with DC MBUS Compliance with standards (others available upon request) Safety EN/IEC 62109-1, EN/IEC 62109-2									
Display indicators; Integrated WLAN + FusionSolar RS485 APP, WLAN Communication via integrated WLAN module in the inverter Ethernet via Smart Dongle- WLAN-FE (optional); 4G / 3G / 2G via Smart Dongle-4G (optional) 12.0 kg Weight (including mounting bracket) Dimensions (including mounting bracket) Degree of protection Night energy consumption Compatible Optimizer Deptimizer compatible with DC MBUS Compliance with standards (others available upon request) Safety EN/IEC 62109-1, EN/IEC 62109-2									
Communication via integrated WLAN module in the inverter Ethernet via Smart Dongle- WLAN-FE (optional); 4G / 3G / 2G via Smart Dongle-4G (optional) 12.0 kg Weight (including mounting bracket) Dimensions (including mounting bracket) Degree of protection Night energy consumption Compatible Optimizer Compatible With DC MBUS Compliance with standards (others available upon request) Safety EN/IEC 62109-1, EN/IEC 62109-2	Display	indicators; Integrated WLAN + FusionSolar RS485 APP. WLAN							
Weight (including mounting bracket) Dimensions (including mounting bracket) Degree of protection Night energy consumption Compatible Optimizer Safety WLAN-FE (optional); 4G/3G/2G via Smart Dongle-4G (optional) 12.0 kg WLAN-FE (optional); 4G/3G/2G via Smart Dongle-4G (optional) 12.0 kg 365mm*365mm*156mm 1P65 < 2.5W Compatible Optimizer SUN2000-450W-P Compliance with standards (others available upon request) Safety EN/IEC 62109-1, EN/IEC 62109-2									
Dimensions (including mounting bracket) Degree of protection Night energy consumption Compatible Optimizer Sunv2000-450W-P Compliance with standards (others available upon request) Safety EN/IEC 62109-1, EN/IEC 62109-2		WLAN-	FE (optional); 4G / 3G /	2G via Smart Dongle-4G	(optional) 12.0 kg				
bracket) Degree of protection Night energy consumption Compatible Optimizer Sun2000-450W-P Compliance with standards (others available upon request) Safety EN/IEC 62109-1, EN/IEC 62109-2									
Degree of protection IP65 Night energy consumption < 2.5W Compatible Optimizer Sunzooo-450W-P Compliance with standards (others available upon request) EN/IEC 62109-1, EN/IEC 62109-2				365mr	n*365mm*156mm				
Compatible Optimizer		IP65							
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Compliance with standards (others available upon request) Safety SUN2000-450W-P Compliance with standards (others available upon request) EN/IEC 62109-1, EN/IEC 62109-2				0	ible Ontineine	_			
Compliance with standards (others available upon request) EN/IEC 62109-1, EN/IEC 62109-2					•	1			
Safety EN/IEC 62109-1, EN/IEC 62109-2	Optimizer compatible with DC MBUS				SUN2000-450W-P				
Safety EN/IEC 62109-1, EN/IEC 62109-2						9. 1.1			
			Complian	ice with stand	ards (others	available upo	n request)		
	Safety		Complian				n request)		
	Safety Standard network connections ilable in 2020 Q3.	G98, G99, EN 50549-		EN/IEC 6	2109-1, EN/IEC 62109-	-2			

Version No.:03-(20200616)

^{*1} Available in 2020 Q3.
*2 The maximum PV input power of the inverter is 10,000 Wp when long strings are designed and fully connected with SUN2000-450W-P power optimizers.
*3 The maximum input voltage and the upper limit of the operating voltage will be reduced to 495V when the inverter connects and works with LG battery.
*4 2.500W © SKWh HUAWEI ESS battery.
*5 AS4777.2: 4,991W. *6. VDE-AR-N 4105: 4,600VA / AS4777.2: 4,999VA. *7. AS4777.2: 4.999VA / C10/11: 5.000VA. *8. AS4777.2: 1.7A.