



**SIMLIFE** Electric




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# SKAN Hybrid series product specifications


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\* Disclaimer: All pictures shown are for illustrative purposes only. Actual product may vary due to product enhancements.

Particulars / Products	SKAN Hybrid 1000	SKAN Hybrid 2000	SKAN Hybrid 3000	SKAN Hybrid 4000	SKAN Hybrid 5000
<b>Solar panel string specifications</b>					
Nominal Solar Power (Wp)	1000	2000	3000	4000	5000
Max. solar power (W)	25 % additional over nominal power				
Max. Solar string input voltage (V)	60	120	180	240	240
MPPT operating range (V)	30 - 40	55 - 85	90 - 120	120 - 150	120 - 150
Maximum short circuit Current (A)	40				
Rated MPPT voltage V	32	64	96	125	125
MPPT channel	1				
<b>Grid tie specifications</b>					
Max. output power (W)	1000	2000	3000	4000	5000
Rated output power (W)	1000	2000	3000	4000	5000
Voltage range (V)	185 – 265				
Rated voltage (V)	230				
Rated current (A)	4.3	8.7	13	17.4	21.7
Frequency range (Hz)	47 – 53				
Power factor	1				
Current harmonic distortion (THDi)	< 3%				
Max. Inverter efficiency	98%				
Max. Efficiency with isolation transformer	90%				
Galvanic isolation	Available				
Features on Grid mode	Grid: OV, UV and surge protection. DC: OV, UV and surge protection.				
	Frequency: higher & lower cut off. Anti-islanding protection. Polarized PV connectors				

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<b>Inverter mode specifications</b>					
Max. output active power (W)	1000	2000	3000	4000	5000
Max. output apparent power (VA)	1000	2000	3000	4000	5000
Output voltage nominal V	230 (+/-5%)				
Output frequency (Hz)	50				
Output connections	3 wire (Phase, Neutral, PE)				
Features on inverter mode	Overvoltage, over current and over load protection. Isolated inverter with inbuilt surge protection, Extended run time during day time (solar + battery)				
<b>Battery specifications</b>					
Nominal battery voltage (V)	24	48	72	96	96
Capacity AH	42 ~ 200 AH				
Charger current A	5 ~ 25 A				
Boost charging voltage V	28.8	57.6	86.4	115.2	115.2
Float charging voltage V	27.2	54.4	81.6	108.8	108.8
Charging levels	3 level charging				
Charger features	Wide input voltage charger, Boost and Float mode, battery reverse protection, Front end UPFC				
<b>Communications and management</b>					
Audible alarm	For all manual intervention faults				
LCD display	Refer the LCD section of the manual				
Communication	RS485, MODBUS				



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<b>Environmental Specification</b>					
Environmental category	Indoor - IP 21				
Pollution degree	PD3				
Protection degree	Class 2				
Relative Humidity %	0-50				
Operating Temperature °C	30-95				
Overvoltage category	Category III				
Safety class	Class I metal enclosure with protective earth				
Maximum Altitude	2000 m				
Additional features	Dual DSP system for safety, Low frequency based system, designed to handle surge loads, Dual grid side Relays				
Input sources	Solar, Battery, Grid				
<b>IEC certifications (certification under progress)</b>					Standards
Environmental Testing	IEC 60068-2 (1, 2,14,30)				
Efficiency Measurements	IEC 61683:1999				
Product safety standard	IEC 62109-1 (2010)		IEC 62109-2 (2011)		
MPPT Efficiency	EN 50530				
Grid Connectivity utility interface	IEC 61727:2004				
Test procedure for islanding prevention measures for utility/interconnected PV inverters	IEC 62116				
Electromagnetic compatibility & Electro Magnetic Interference	IEC 61000-6-1:2007		IEC 61000-6-3:2007		
	IEC 61000-3-2:2006		IEC 61000-3-3:2006		
Ingress protection	IEC 60529 - IP 21				