









SIMLIFE Electric

SKAN Hybrid series product specifications

* 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
Solar panel string specifications					
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				
Grid tie specifications					
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				

Particulars / Products	SKAN Hybrid 1000	SKAN Hybrid 2000	SKAN Hybrid 3000	SKAN Hybrid 4000	SKAN Hybrid 5000
Inverter mode specifications					
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)				
Battery specifications					
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				
Communications and management					
Audible alarm	For all manual intervention faults				
LCD display	Refer the LCD section of the manual				
Communication	RS485, MODBUS				

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Environmental Specification					
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				
IEC certifications (certification under progress)					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				