



X-Hybrid Inverter

# X1-Hybrid

	SK-SU3000E	SK-SU3700E	SK-SU5000E
<b>INPUT (DC)</b>			
Max.recommended DC power[W]	3300	4000	5000
Max.DC voltage[V]		550	
Normal DC operating voltage[V]		360	
Max.input current[A]	12	12/12	12/12
Max. short circuit current[A]	15	15/15	15/15
MPPT voltage range[V]		125-530	
No. of MPP trackers	2	2	2
Strings per MPP tracker	1	1	1
<b>OUTPUT AC</b>			
Normal AC power [VA]	3000	3680	4600
Max. AC power [VA]	3300	3680	4999
Rated grid voltage(AC voltage range) [V]		230 (180 to 270)	
Rated grid frequency [Hz]		50/60	
Normal AC current [A]	13	16	20
Max. AC current [A]	14.4	16	21.7
Displacement power factor		0.8 leading to 0.8 lagging	
Total harmonic distortion(THD, rated power) [%]		<3	
Load control		Yes (optional)	
<b>OUTPUT DC (BATTERY)</b>			
Battery voltage range [V]		40-60	
Recommended battery voltage [V]		48	
Max.charging/discharging power [W]	2500	2500	2500
Max.charging/discharging current [A]	25	25	25
Communication interfaces		Can/RS232	
Reverse connect protection		Yes	
<b>EPS OUTPUT (WITH BATTERY)</b>			
EPS rated power [VA]	2000	2000	2000
EPS rated voltage [V], Frequency [Hz]		230,50/60	
EPS rated current [A]	8.7	8.7	8.7
EPS peak power[W];Duration [s]	1.5xRated, 10	1.5xRated, 10	1.5xRated, 10
Switch time[s]		<5	
Total harmonic distortion(THD, linear load) [%]		<3	
Parallel operation		No	
<b>EFFICIENCY</b>			
MPPT efficiency [%]		99.9	
Euro efficiency [%]		97.0	
Max. efficiency [%]		97.6	
Battery charge/discharge efficiency [%]		94.0	
<b>POWER CONSUMPTION</b>			
Standby consumption [W]		<7	
Idle mode		YES	
<b>STANDARD</b>			
Safety		IEC62109-1; IEC62109-2; IEC62040-1	
EMC		IEC61000-6-1/2/3	
Certification	VDE 4105 / AS/NZS4777	.2 / C10 11 / EN50438-	NL / EN50438- DK / OVE/ONORME 8001 / G83 ,G59 / CEI 0-21
<b>ENVIRONMENT LIMIT</b>			
Protection class		IP20 (indoor use)	
Operating temperature range [°C]		-10~+50 (derating at 40)	
Altitude[m]		<2000	
Storage temperature[°C]		-20~+60	
Noise emission(typical) [dB]		<40	
Over voltage category		III (electric supply side), II (PV side)	
<b>DIMENSION AND WEIGHT</b>			
Dimensions(WxHxD) [mm]		700*591*151	
Weight[kg]		27.7	
Cooling concept		Forced airflow	
Topology		Transformerless	
Communication		Ethernet / WIFI / Dry Contact	
LCD display		Backlight 16*4 character	
Standard warranty [years]		5-10	

\*Can be modified without notice.(V2)