



THREE-PHASE HYBRID INVERTER



DATASHEET

SUN-25K-SG01HP3-EU-BM2 / SUN-30K-SG01HP3-EU-BM3
SUN-40K-SG01HP3-EU-BM4 / SUN-50K-SG01HP3-EU-BM4

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QUANTUM SOLAR ENERGY
Installers and Distributors

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Model	SUN-25K-SG01HP3-EU-BM2	SUN-30K-SG01HP3-EU-BM3	SUN-40K-SG01HP3-EU-BM4	SUN-50K-SG01HP3-EU-BM4
Battery Input Data				
Battery Type	Li-Ion			
Max. Charging Current	50A+50A			
Max. Discharging Current	50A+50A			
Number of battery input	2			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power(W)	32500	39000	52000	65000
Max. DC Input Voltage (V)	1000			
Start-up Voltage(V)	180			
MPPT Range(V)	150-850			
Full Load DC Voltage Range (V)	450-850	360-850	360-850	450-850
Rated DC Input Voltage (V)	600			
PV Input Current(A)	36+36	36+36+36	36+36+36+36	
Max.PV Isc(A)	55+55	55+55+55	55+55+55+55	
No. of MPPT Trackers	2	3	4	
No. of Strings Per MPPT Tracker	2+2	2+2+2	2+2+2+2	
AC Output Data				
Rated AC Output and UPS Power(W)	25000	30000	40000	50000
Max. AC Output Power(W)	27500	33000	44000	55000
Peak Power(off grid)	1.5 time of rated power, 10 S			
AC Output Rated Current(A)	37.9/36.3	45.5/43.5	60.7/58.0	75.8/72.5
Max. AC Current(A)	50	60	70	83.3
Max. Continuous AC Passthrough(A)	150			
Generator input/Smart load	37.9/150	45.5/150	60.7/150	75.8/150
/AC couple current (A)	/37.9	/45.5	/60.7	/75.8
Power Factor	0.8 leading to 0.8 lagging			
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac			
Grid Type	Three Phase			
DC injection current (mA)	<0.5%1n			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	97.00%			
MPPT Efficiency	>99%			



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Protection				
PV Input Lightning Protection	Integrated			
Anti-islanding Protection	Integrated			
PV String Input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Output Shorted Protection	Integrated			
Output Over Voltage Protection	DC Type II / AC Type III			
Battery Over Current Protection	Fuses			
Certifications and Standards				
Grid Regulation	VDE4105,IEC61727/62116,VDE0126,AS4777.2,CEI 0 21,EN50549-1, G98,G99,C10-11,UNE217002,NBR16149/NBR16150			
EMC/Safety Regulation	IEC62109-1/-2, NBT32004-2018, EN61000-6-1,EN61000-6-2, EN61000-6-3, EN61000-6-4			
General Data				
Operating Temperature Range(°C)	-40~60 °C, >45 °C Derating			
Cooling	Intelligent air cooling			
Noise(dB)	≤45 dB			
Communication with BMS	RS485; CAN			
Weight(kg)	75			
Size(mm)	527W×894H×294D			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 years			





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