

THREE PHASE HYBRID INVERTER

SE 12/15/20/25/30KHB





EXCELLENT PERFORMANCE

- · Maximum efficiency of 98.4% and battery efficiency of 98.0%
- · Maximum 150% PV input power, supporting continuous overload capacity of 110% and unbalanced output of 150%
- · Maximum battery charge/discharge current of 2*75A
- · Large MPPT current, compatible with high-power solar panels
- · Advanced parallel function



HIGH RELIABILITY

- · Key components from international renowned brands
- · IP66 protection rating, ensuring adaptability to complex outdoor environment
- · Multiple built-in protections, with optional AFCI



INTELLIGENT MAINTENANCE

· Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade

+86-755-8524-5541 ext. 2800

· Advanced energy management mechanism, with multiple built-in working modes and flexible customized settings













Model	SE 12KHB-D3	SE 15KHB-D3	SE 20KHB-D3	SE 25KHB-T3	SE 30KHB-T3
Efficiency May Efficiency (DV to AC)	98.2%			98.4%	
Max. Efficiency (PV to AC) Eur. Efficiency (PV to AC)	-	98.2%	97.9%	98.	470
Max. Efficiency (BAT to AC)			98.0%		
Input (PV)			96.0%		
Max. PV Configuration			200%		
Max. PV Input Power	18,000W	22,500W	30,000W	37,500W	45,000W
Max. PV Voltage			1000V		,
Start-up Voltage	150V				
MPPT Voltage Range			160V-950V		
Max. Input Current per MPPT		32A/32	32A/32A/32A		
Max. Short Circuit Current per MPPT	40A/40A			40A/40)A/40A
String per MPPT	4 (2/2)			6 (2/2/2)	
Nos. of MPPT		2] :	3
Input/Output (BAT)					
Battery Type			Lithium-ion/Lead-acid		
Nominal Battery Voltage	250V-800V	320V-800V	420V-800V	260V-800V	320V-800V
Battery Voltage Range			120V-800V		
Max. Charge/Discharge Current	14 40004// 12 60004/	60A/60A	24.000141/22.600141	2*75A	
Max. Charge/Discharge Power	14,400W/ 13,600W	18,000W/ 17,000W	24,000W/ 22,680W	30,000W/ 28,350W	30,000/ 34,000\
Output (Grid) Nominal AC Output Power	12,000W	15,000W	20.000W	25,000W	30,000W
Max. AC Output Power	12,000W 13,200VA	16,500VA	20,000W 22,000VA	25,000W 27,500VA	30,000W 33,000VA
Max. AC Output Power (PF=1)	13,200VA 13,200W	16,500VA	22,000VA	27,500VA	33,000VA 33,000W
Max. AC Output Power (PF=1)	3*20.1A	3*25.1A	3*33.4A	3*41.8A	3*50.1A
Max. Single Phase power	10,000W	10,000W	10.000W	11.000W	11,000W
Max. Input Power	36,000W	,	000W	45,0	,
Max. Input Current	3*54.5A 3*60.6A 3*68.2A				
Nominal Grid Voltage	Three Phase 380V/400V/415V, 3W+N+PE				
Grid Voltage Range	277V-520V (Adjustable)				
Nominal Grid Frequency	50Hz/60Hz				
Grid Frequency Range	45Hz-55Hz/55Hz-65Hz (Adjustable)				
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)				
THDI			<3% (Rated Power)		
Output (Back up)					
Nominal Output Power	12,000W	15,000W	20,000W	25,000W	30,000W
Nominal Output Current	3*18.2A	3*22.7A	3*30.3A	3*37.9A	3*45.5A
Peak Output Apparent Power (5min)	14,400VA	18,000VA	24,000VA	30,000VA	36,000VA
Peak Output Apparent Power (10s)	18,000VA 22,500VA 30,000VA 37,500VA 45,000VA				
Nominal Output Voltage	Three Phase 380V/400V/415V, 3W+N+PE				
Nominal Output Frequency	50Hz/60Hz				
Transfer Time THDV	<10ms (typical) <3% @100% R Load				
Protection			< 3% @ 100% R LOad		
Protection Category			Class I		
DC Switch	Class I				
Anti-islanding Protection	Yes				
AC Overcurrent Protection	Yes Yes				
DC/AC Overvoltage Protection	Yes DC Type II, AC Type III				
AC Short Circuit Protection	Yes				
DC Reverse Protection	Yes				
Surge Arrester	DC Type II, AC Type II				
Insulation Resistance Detection	Yes				
Leakage Current Protection	Yes				
AFCI	Optional				
General					
Max. Operation Altitude	4000m (>2000m derating)				
Ingress Protection Degree	IP66				
Operating Temperature Range	-25℃~60℃ (>45℃ derating)				
Relative Humidity	0~100%				
Cooling		Natural Cooling		Smart Fa	n Cooling
Mounting Method	Wall bracket				
Dimensions (W*H*D)	660mm*596mm*235mm				
Weight	45Kg 55Kg				
PV Connection Way			MC4/H4		
HMI & COM					
Display	DC 405 (C		oth & APP + LED, LCD (c		DO 3*DI
Communication Interface Certification	RS485/C/	4N (TOT BMS), RS485, [DRM/RS485 (for Meter),	Optional: Wi-Fi/LAN, 2*	טט, ב^טו
			IEC 62109-1&2		
Safety Grid		VDE 4105 EN E0E40 1	, CEI 0-21, NRS 097-2-1,	PD 1600/661/647/412	
uriu					
		LINE 217002 AC 4	777.2, C10/11, G98/G10)N IEC 61777/67116	

 ${\it Remarks:} \quad \cdot \ \, {\it The range of output voltage and frequency may vary depending on different grid codes.}$

 $[\]cdot\,$ Specifications are subject to change without advanced notice.











