



NANUK SE ENERGY STORAGE HYBRID INVERTER

- Nanuk SE 5/6/8/10 KHB-D3P
- Three Phase & HV Battery
- Application: Residential Use



Excellent Performance

- Maximum efficiency of 97.8%
- Maximum 15kW PV input power, supporting continuous overload capacity of 110%
- Maximum battery charge/discharge current of 50A



High Flexibility

- Large MPPT current, compatible with high-power solar panels
- Advanced parallel function



Safety & Reliability

- Key components from well-known international brands
- IP65 protection rating, ensuring adaptability to complex outdoor environment
- Multiple built-in protections, with optional AFCI 2.0



Intelligent Maintenance

- Quick commission via mobile app, 24/7 remote monitoring, configuration and upgrade
- Advanced energy management mechanism, with multiple built-in working modes and flexible customized settings



	Nanuk SE 5KHB-D3P	Nanuk SE 6KHB-D3P	Nanuk SE 8KHB-D3P	Nanuk SE 10KHB-D3P
Efficiency				
Max. Efficiency (PV to AC)	97.3%	97.3%	97.8%	97.8%
Eur. Efficiency (PV to AC)	96.7%	96.7%	97.0%	97.0%
Max. Efficiency (BAT to AC)	96.9%	97.0%	96.9%	97.0%
Input (PV)				
Max. PV Usable Power			15,000W	
Max. PV Voltage			1,000V	
Start-up Voltage			120V	
MPPT Operating Voltage Range			160V-950V	
Max. Input Current per MPPT			20A/30A	
Max. Short Circuit Current per MPPT			30A/40A	
String per MPPT			1/2	
Nos. of MPPT			2	
Input/Output (BAT)				
Battery Type			Lithium-ion/Lead-acid	
Battery Voltage Range at Rated Power			250V-600V	
Battery Voltage Range			120V-600V	
Max. Charge/Discharge Current			50A/50A	
Max. Charge/Discharge Power	15,000W/5,800W	15,000W/7,000W	15,000W/9,100W	15,000W/11,300W
Output (Grid)				
Nominal AC Output Power	5,000W	6,000W	8,000W	10,000W
Max. AC Output Apparent Power	5,500VA	6,600VA	8,800VA	11,000VA
Max. AC Output Power (PF=1)	5,500W	6,600W	8,800W	11,000W
Max. AC Output Current	3*8.3A	3*10A	3*13.3A	3*16.7A
Max. Single Phase Power	2,500W	3,000W	4,000W	5,000W
Max. Input Power			15,800W	
Max. Input Current			3*25A	
Nominal Grid Voltage			380V/400V/415V, 3W+N+PE	
Grid Voltage Range			260V-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			<5%@Rated Power	
Output (Back up)				
Nominal Output Power	5,000W	6,000W	8,000W	10,000W
Nominal Output Current	3*7.6A	3*9.1A	3*12.2A	3*15.2A
Max.Single Phase Power	2,500W	3,000W	4,000W	5,000W
Peak Output Apparent Power (5min)	6,000VA	7,200VA	9,600VA	12,000VA
Peak Output Apparent Power (10s)	7,500VA	9,000VA	12,000VA	15,000VA
Nominal Output Voltage			380V/400V/415V, 3W+N+PE	
Nominal Output Frequency			50Hz/60Hz	
Transfer Time			<10ms (Typical)	
THDV			<3%@100% R Load	
Protection				
Protection Category			Class I	
DC Switch			Yes	
Anti-islanding Protection			Yes	
AC Overcurrent Protection			Yes	
DC/AC Overvoltage Protection			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	
GFCI			Yes	
AFCI 2.0			Yes	
			Optional	
General				
Max.Operation Altitude			4000m (>2000m derating)	
Ingress Protection Degree			IP65	
Operating Temperature Range			-25°C ~ 60°C (>45°C derating)	
Relative Humidity			0~100%	
Cooling Method			Natural Cooling	
Mounting			Wall bracket	
Dimensions(W*H*D)			560mm*580mm*218.3mm	
Weight			32Kg	
PV Connection Way			MC4/h	
HMI & COM				
Display			APP+LED	
Communication Interface			RS485/CAN (for BMS), DRM, RS485 (for Meter), LAN (Optional)	
Certification				
Safety			IEC/EN 62109-1&2	
EMC			IEC/EN 61000	
Grid Code			VDE 4105, EN 50549-1, CEI 0-21, PPDS, RD 1699/661/647/413, UNE 217002, AS 4777.2,	
Warranty			C10/11, G98/G100, IEC 61727/62116	
			5 Years/10 Years (Optional)	

Remarks: - The range of output voltage and frequency may vary depending on different grid codes.
-Specifications are subject to change without advanced notice.