



NEW

blueplanet hybrid

6.0 NH3-12.0 NH3

**HYBRID INVERTERS FOR
RESIDENTIAL AND SMALL COMMERCIAL
BATTERY STORAGE AND
SOLAR PV SYSTEMS**

Solar+storage. Quick+easy.

Easy-to-connect battery and smart meter interfaces

Smart meter and current transformer included in delivery

Compatible with high-voltage batteries

Full rated output in battery mode

Emergency power and black start capability

Open home energy management system available for sector coupling

User-friendly App for set-up, commissioning and real-time monitoring

Remote monitoring and secure data transmission with new blueplanet smartcloud

Superior oversizing capabilities and shade management for higher yields

Ready for bifacial and high power PV modules

3 MPPTs for flexible PV system design

PV Input (DC)	hybrid 6.0 NH3 M2	hybrid 8.0 NH3 M3	hybrid 10.0 NH3 M3	hybrid 12.0 NH3 M3
Max. recommended PV generator power	9 000 Wp	12 000 Wp	15 000 Wp	18 000 Wp
Number of independent MPP inputs / strings per MPP input	2 / 1	3 / 1	3 / 1	3 / 1
Max. DC voltage	1100 V DC			
MPP range / Start-up voltage	150-950 V / 200 V	200-950 V / 200 V	200-950 V / 200 V	200-950 V / 200 V
MPP range @ rated power / nominal voltage	290-850 V	250-850 V / 630 DC	320-850 V / 630 DC	380-850 V / 630 DC
Max. input current per MPP tracker	20 A	16 A	16 A	16 A
Max. short-circuit current (Isc)	30 A	24 A	24 A	24 A
Battery Connection (DC)				
Voltage range	120 V DC – 600 V DC			
Max. charging current / max. discharging current	30 A			
Max. charging power / max. discharging power	6 000 W	8 000 W	10 000 W	12 000 W
Battery type	Lithium-ion (LiFePO4)			
Compatible batteries	BYD HVS, BYD HVM, PYLONTECH Force H1, AXITEC Li Sv1			
Grid Feed-in (AC)				
Max. AC power	6 000 VA	8 000 VA	10 000 VA	12 000 VA
Number of feed-in phases	3			
Max. AC current	9,6 A	12,8 A	16,0 A	19,2 A
Nominal grid voltage	220 V / 380 V 230 V / 400 V 240 V / 415 V			
Nominal grid frequency / frequency range	50 Hz or 60 Hz / 45 – 65 Hz			
AC voltage range	270 – 480 V AC			
Power factor range	0,8 c – 0,8 i			
Max. grid input current	32 A			
Max. grid input power	22 000 VA			
Harmonics THD	< 3 %			
EPS Output (Emergency Power Supply)				
Nominal EPS voltage	220 V / 380 V (3 / N / PE) 230 V / 400 V (3 / N / PE) 240 V / 415 V (3 / N / PE)			
Nominal EPS frequency	50 Hz / 60 Hz			
Max. EPS output power (continuous off-grid)	6 000 VA	8 000 VA	10 000 VA	12 000 VA
Peak EPS output power (off-grid)	2 times of rated power, max. 10 sec.			
Max. EPS output power (continuous on-grid)	22 000 VA			
Rated current @ 400 V	8,7 A	11,6 A	14,5 A	17,4 A
Max. switch time	< 10 ms			
Harmonics THD (off-grid)	2 %			
Efficiency				
Max. efficiency	97,81 %	97,97 %	98,11 %	98,19 %
European efficiency	95,47 %	95,91 %	96,46 %	96,55 %
Max. battery to load efficiency	97,48 %	97,79 %	97,88 %	97,85 %
General Data				
H x W x D	545 x 530 x 230 mm			
Weight	26,5 kg	28,5 kg	28,5 kg	28,5 kg
Ambient temperature	-25 °C – +60 °C			
Noise emission	30 dB(A)			
Cooling	Natural convection			
Standby consumption	< 10 W			
Protection rating (IEC 60529)	IP66			
Climatic category (acc. to IEC 60721-3-4)	4K4H			
Humidity range [%]	100 % (non-condensing)			
Max. operating altitude	3000 m			
Battery connection	MC4			
Connector type	PhoenixContact Sunclix			
AC connection and EPS connection	5-pole AC plug			
AC connection max. conductor cross-section	6 mm ²			
Features				
DC surge protection (Type II, acc. to EN/IEC 61643-11) / AC surge protection Type II	●			
Insulation resistor detection	●			
PV input reverse polarity protection	●			
Battery input reverse polarity protection	●			
Over-temperature protection	●			
Residual current monitoring unit	●			
AC short-circuit protection	●			
Anti-islanding protection	●			
User interface	LED & App			
Communication with BMS	CAN			
Communication with meter	Sunspec Modbus RTU			
Communication with portal	WLAN / LAN			
Digital input (dry contact) / number of inputs	●/4			
Digital output (dry contact) / number of outputs	●/2			
Integrated power control / zero export control	●			
Operating Modes				
Grid parallel self-consumption	●			
Grid parallel integration of AC coupled power source	●			
Grid parallel emergency power supply mode	●			
Off-Grid island mode	●			
Certifications				
Safety & EMC	EN 62109-1; EN 62109-2; EN 6100-6-2; EN 62920; EN 55011; EN 61000-6-3; EN 62920; EN 61000-3-11; EN 61000-3-12			
Grid connection rule	overview see homepage / download area			