



**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

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

Emergency power and black start capability

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
<b>Battery Connection (DC)</b>				
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/H2/H3, AXITEC Li SV1/Li SV2			
<b>Grid Feed-in (AC)</b>				
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 %			
<b>EPS Output (Emergency Power Supply)</b>				
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 %			
<b>Efficiency</b>				
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 %
<b>General Data</b>				
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 <sup>2</sup>			
<b>Features</b>				
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	●			
<b>Operating Modes</b>				
Grid parallel self-consumption	●			
Grid parallel integration of AC coupled power source	●			
Grid parallel emergency power supply mode	●			
Off-Grid island mode	●			
<b>Certifications</b>				
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			