

On-Grid Inverter with Energy Storage Onyxline 30kw



- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- 150% unbalanced load support
- Dual output for smart load management
- Built-in WiFi for mobile monitoring (App is available)
- User-adjustable charging current up to 50A
- Wide battery input range
- Built- in communication port for BMS (RS485)
- Parallel operation up to 4 units

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Onyxline Three Phase On-Grid Inverter with Energy Storage Specification

MODEL		Onyxline WP 30KW
MAXIMUM PV INPUT POWER		40000 W
RATED OUTPUT POWER		30000 W
MAXIMUM CHARGING POWER		18000 W
GRID - TIE OPERATION		
PV INPUT (DC)		
Nominal DC Voltage / Maximum DC Voltage		720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage		320 VDC / 350 VDC
MPP Voltage Range		350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current		3 / A: 26A, B: 26A, C: 26A
Number of Strings Per MPP Tracker		A: 2, B: 2, C: 2
GRID/UTILITY OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range		184 - 265 VAC per phase
Nominal Output Current		43.5 A per phase
Power Factor		0.9 lag to 0.9 lead
EFFICIENCY		
Maximum Conversion Efficiency (DC/AC)		96.5%
European Efficiency@ Vnominal		96%
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range		170 - 280 VAC per phase
Maximum AC Input Current		50 A
AC INPUT (DC)		
Maximum DC Voltage		1000 VDC
MPP Voltage Range		350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current		3 / A: 26A, B: 26A, C: 26A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Output Waveform		Pure sine wave
Efficiency (DC to AC)		96%
HYBRID OPERATION		
PV INPUT (DC)		
Maximum DC Voltage		1000 VDC
Start-up Voltage / Initial Feeding Voltage		320 VDC / 350 VDC
MPP Voltage Range		350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current		3 / A: 26A, B: 26A, C: 26A
GRID OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range		184 - 265 VAC per phase
Nominal Output Current		43.5 A per phase
AC INPUT		
AC Start-up Voltage / Auto Restart Voltage		120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range		170 - 280 VAC per phase
Maximum AC Input Current		50 A
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage		230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)		96%
BATTERY & CHARGER		
Battery Voltage Range		500 ~ 1000 VDC
Maximum Charging Current		50 A
GENERAL		
PHYSICAL		
Dimension, D x W x H (mm)		255 x 660 x 750
Net Weight (kgs)		73
INTERFACE		
Communication Port		RS-232, USB, DRY CONTACT, RS-485 and Wi-Fi
Intelligent Slot		Optional SNMP, MODBUS and GPRS
ENVIRONMENT		
Humidity		0 ~ 100% RH
Operating Temperature		-25°C to 60°C (>45°C De-rating)
Altitude		0 ~ 1000 m**

*These figures are based on VDE-4105 standard. All figures may vary depending on different AC voltage and country requirements.
** Power derating 1% every 100 m when altitude is over 1000m
Product specifications are subject to change without further notice.