

KACO



XP10U-H4

KACO blueplanet XP10U-H4 grid-tied inverter

Performance

High efficiency:	98% max efficiency - generate fast return on investment
Wide DC input voltage range:	High design flexibility for system sizing
2 MPP trackers:	Increase overall efficiency with multiple orientations using dual MPP tracker inputs
Graphic display:	Top of the line graphic display with 6 button keypad
Variable speed fans:	No unnecessary cooling - decrease internal power consumption & increase uptime
Floating Point DSP:	Reduce total harmonic distortion and provide more accurate AC power control
Communication:	Integrated webserver with built in Ethernet to view and download performance data
Complex MPPT algorithm:	Dynamic MPPT with high accuracy during severe weather fluctuations
Full digital control:	Total transparency of inverter functions - faster reaction time and increased uptime

Ease of installation

Easy handling:	Lightweight (88 lbs) and easy to handle cast aluminum enclosure
Knockout plate:	Removable and customizable aluminum bottom plate for conduit knockouts
Reduced weight:	KACO inverters are up to 50% lighter than comparably sized inverters
Reduced side clearance:	Better side by side installation with side fan air intake and top exhaust
Pre-set parameters:	Save time and labor cost - simple configuration with display and keypad
Software upgrade:	Software is upgradable via USB memory stick
Reverse polarity protection:	Avoid potential damage to inverter caused by mis-wiring during installation

Reliability

History:	KACO has been manufacturing power electronics for more than 60 years
Experience:	More than 3 GW of inverters worth more than \$1 billion installed world wide
Split architecture design:	Power electronics are protected in a separate chamber
Simple transformerless design:	Higher efficiency means lower temperatures and higher reliability
Surge protection (SPD):	SPDs on all AC & DC inputs for protection from surges and grid spikes
Redundant power capacitors:	Increases the lifetime of your inverter

Certifications pending: UL 1741, IEEE 1547, CSA 22.2



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Monitoring

easyLINK data interface:
S0, RS485, USB, Ethernet

Graphical User Interface (GUI):
User friendly display and 6 button keypad streamlines inverter commissioning and provides access to inverter data with clear graphical images

Free real-time monitoring:

Built-in webserver in each individual XP10U provides easy access to performance statistics and PV system data

USB Software updates:

update XP10U software via USB memory stick

blueplanet web:

Free monitoring option for residential systems up to 10kW.*

**Available for all system sizes for additional cost.*

Warranty

Warranties are only as valuable as the strength and longevity of the manufacturer. KACO is one of the few established inverter companies older than the warranties they offer.

Extended warranty options:

15 and 20 years

Operation and maintenance:

O&M contracts available for up to 20 years

Model number	blueplanet XP10U-H4
Input data (DC)	
DC operating range (MPP)	200 – 550 V _{DC} *
Full power DC operating range (MPP)	280 – 550 V _{DC}
Max. DC input voltage	600 V _{DC}
Nominal DC input current	2 x 18.6A _{DC}
Max. DC input I _{sc} current	2 x 25 A
Output data (AC)	
Max. continuous output power (CEC)	10 kW
Max. over-current protection	60 A
Max. continuous current	12A _{AC}
AC operating voltage	480 V (3-Phase)
Frequency	60 Hz (59.3 – 60.5 Hz)
Max. efficiency	98%
Additional data	
Cooling	Variable speed cooling fan
DC reverse polarity protection	Yes
Ground fault protection	Integrated ground fault detector/interrupter (GFDI)
Grounding	Ungrounded PV array
Visual displays	Graphical LCD, 6 button keypad, integrated web server
Included accessory interfaces	Ethernet, USB, RS485, S0 output
Ambient temp @ max AC power	-13 °F – 104 °F (-25 °C – 40 °C)
Ambient operating temperature	-13 °F – 140 °F (-25 °C – 60 °C)
Thermal protection	Yes
Noise emissions	< 45 dB (A) (noiseless when operating without fan)
Relative humidity range	0-95% (non condensing)
Max. altitude	6561' (2000 m)
Warranty	10 years (15, 20 years extensions available)
Certifications	
Safety compliance	UL1741, IEEE1547, CSA C22.2 No. 107.1
Communications compliance	FCC Part 15 Class A
Specifications	
Enclosure type	Aluminum cast, NEMA 3R
Dimensions (H, W, D)	27.2 x 16.5 x 7.9 in (690 x 420 x 200 mm)
Weight	approximately 88 lbs (40 kg)

*MPP operation below 280VDC at reduced power.