

# Small size, light weight, great features, best value!

KACO new energy is pleased to introduce our updated small three phase inverter for commercial projects. This updated inverter offers the convenience of all-in-one features like an integrated AFCI detector, multiple MPPT channels, AC and DC overcurrent protection, and an AC and DC disconnection means with lock-out-tag safety; representing a range of installer time saving features never before seen from a leading global inverter manufacturer.

Speed is the key to reducing installation time and labor cost. This new line of inverters uses advanced, lightweight materials and improved power density to decrease your installation time by allowing for simple handling procedures in the field and reducing the amount of additional equipment that must be installed near the inverter.

All-in-one communications is now a standard feature from KACO new energy. The blueplanet 10.0 TL3 includes SunSpec compliant ModBus TCP interfaces for 3rd party monitoring as well as support for our legacy of KACO branded monitoring interfaces. Each inverter comes standard

with RJ45 and RS485 ports without the need to install any daughter cards. The 97.5% CEC efficiency rating and ultra-high accuracy MPPT tracking makes this unit the best choice for maximum yield on your projects.

The blueplanet 10.0 TL3 is available now with certification for USA and Canada. Both 480 Vac and 600 Vac models are available; 600 Vac for Canada only. With five different feature packages, customers can get exactly the right inverter for your project. Installers, Designers, Owners, and End Customers know they are getting the best product for their project, every time.

Deliberate, dynamic, decision. Welcome to the Age of Ultra.

Available now.

2 MPP-Trackers

Wide MPP range

Five option packages

Light weight

Tool-less DC/AC conductor terminations

Multiple communication options standard - no daughter cards req.

Several versions specifically designed for use in Canada

## Technical data

#### blueplanet 10.0 TL3 M2 WM OD

Electrical data	USK8 & USKA	USK3, USK9, & USKE	CAP8 & CAPA	CAP3, CAP9, & CAPE		
DC electrical spec.						
DC max input voltage (V)	600	600	600	600		
DC max peak power operating range (V)	280 - 550	280 - 550	280 - 550	280 - 550		
DC operating range (V)	200 - 600	200 - 600	200 - 600	200 - 600		
OC min start voltage (V)	250	250	250	250		
DC max operating current (A)	2 X 18.6 A	2 X 18.6 A	2 X 18.6 A	2 X 18.6 A		
DC max short circuit current p/channel (A)	2 X 37.0 A	2 X 37.0 A	2 X 45.0 A	2 X 45.0 A		
Max input source backfeed current (A)	0	0	0	0		
OC in. overload protection	Yes, Voltage and Current during operation					
DC in. terminals/conductor size p/channel (w/out PSD)	USK8: MC4 10 - 12 AWG USKA: 4 - 18 AWG CAPA: 4 - 18 AWG					
AC electrical spec.						
AC max continuous output power (W)	10,000	10,000	10,000	10,000		
CEC weighted eff (%)	97.5	97.5	97.5	97.5		
AC nominal voltage/ operating range L to Neutral (VAC)	480 / 243 to 304	480 / 243 to 304	600 / 305 to 381	600 / 305 to 381		
AC continuous output current (A)	12.1	12.1	9.7	9.7		
Frequency nominal / range (Hz)	60 / 60.5 to 59.3					
Power factor	>.99					
Total harmonic distortion	<5%					
Standbye losses (W)	<1.5					
AC short circuit protection	None					
AC in. terminals/conductor L1-L2-L3-N (w/out PSD)	L1-L2-L3 N: 4 - 18 AWG L1-L2-L3 N: 4 - 18 AWG					
AC max out. fault current (A), RMS, & duration ms	625 A (P - P), 18.25 A (RMS), 36.5 ms					
Utility connection	WYE 4 wire (A,B,C,N)					
Communications & user interf	ace					
User interface	Graphical user interface with 3 LED status indicators					
Connectivity	(Ethernet - USB - RS485 - S0 output)					
Certifications & Safety						
UL / IEEE / CSA / FCC	UL	1741 2nd Ed 2010 / UL 1998 /	CSA C22.2No 107.1 / IEEE 154	7 / FCC Class B		
Internal AFCI	AFCI compliant with UL1699B provided with US38, US39, US3D models					
Fault signal relay		·	t (requires external voltage sou			
DC polarity safeguard		Sho	ort circuit diode			
GFDI compliant w/NEC 690.35 for use with ungrounded PV system arrays	UL1741 listed for residual ground fault current isolation monitor and interrupter function					

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Optional PSD data	USK8 & USKA	USK3, USK9, & USKE	CAP8 & CAPA	CAP3, CAP9, & CAPE		
PV system discconect - Onl	ly Models,3,9, & -	E E				
Integrated AC/DC disconnect	Yes/Yes					
AC Disconnection means	Rotary switch accesible from exterior of enclosure with no tools required					
AC Disconnection ratings	20A; 600 Vac; Break L1, L2, L3					
AC over current protection devices (OCPD)	Current limiting inverter, OCPD provided by system integratorE models come with 30A, 600 Vac midget class fuses					
AC LOTO Provision	LOTO in OPEN					
AC input terminals/ conductor size L1- L2-L3/N (w/PSD)	L1-L2-L3: 8 - 14 AWG N+PE: 4 - 16 AWG			L1-L2-L3: 8 - 14 AWG N+PE: 4 - 16 AWG		
DC Disconnection means	Rotary switch accesible from exterior of enclosure with no tools required					
DC Disconnecton ratings	25 A, 4 pole, Load Break, Pos and Neg					
DC Over current protection devices (OCPD)	Current Limiting Inverter 1000 Vdc, 15A fuses provided on units w/optional PSD					
OC LOTO Provision	LOTO in OPEN					
DC input terminals/ conductor size, per channel		2 Pos. & 2 Neg. 4 - 16 AWG				
Mechanical Data						
Mechanical integration	Wall Mount					
Enclosure construction	Powder coated cast AL for inverter, powder coated AL for optional PSD					
Jnit Weight (lb/kg)	88 / 40	100 / 45	88 / 40	100 / 45		
Jnit dims HxWxD [In/mm)	27.2 x 16.5 x 7.9 / 690 x 420 x 200	37.0 x 16.5 x 7.9 / 940 x 420 x 200	27.2 x 16.5 x 7.9 / 690 x 420 x 200	37.0 x 16.5 x 7.9 / 940 x 420 x 200		
Operating temp. range (F/C)	USA models: (-13 to 140 / -25 to 60) Canada models: (-22 to 140 / -30 to 60)					
Storage temp. range (F/C)	(-22 to 158 / -30 to 70)					
Noise emissions	<55 db (A)					
Humidity %	0 to 95 non condensing					
Enclosure rating Inverter/PSD	NEMA 4					
Cooling	Forced convesction with variable speed fan					
Altitude (ft/m)	6500 / 2000					

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