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TRUE BLUE POWER®
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PETERBOROUGH:
925 Airport Road
Peterborough, Ontario Canada K9J 6X6
1-705-742-9725

CALGARY:
3650 19th St. NE, Unit #6
Calgary, Alberta Canada T2E 6V2
1-403-250-5241

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DC-to-AC Inverters

PRODUCT COMPARISON CHART

- TI10
- TI250
- TI254
- TI256
- TI500
- TI1200
- TI1202

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	TI10	TI250	TI254	TI256	TI500	TI1200	TI1202
PART NUMBER	MD26-28	6430250-1	6430250-2	6430250-3	MD50	6431200-1	6431200-3
INPUT VOLTAGE	11 – 40 VDC	20 – 36 VDC	20 – 36 VDC	20 – 36 VDC	20 – 36 VDC	20 – 36 VDC	20 – 36 VDC
INPUT CURRENT	1.7A max (at 11 VDC input, 10 VA load)	10A at 28 VDC input	10A at 28 VDC input	10A at 28 VDC input	20A at 28 VDC input	50A at 28 VDC input	50A at 28 VDC input
OUTPUT VOLTAGE	26 VAC ± 1 VAC	115 VAC ± 3%	115 VAC ± 3%	115 VAC ± 3%, 26 VAC ± 3%	115 VAC ± 3%	115 VAC ± 3%	230 VAC ± 3%
OUTPUT POWER	10 VA	250 VA	250 VA	250 VA	500 VA	1200 VA	1200 VA
OUTPUT FREQUENCY	400 Hz ± 0.5%	60 Hz ± 0.1%	400 Hz ± 0.1%	400 Hz ± 0.1%	60 Hz ± 0.1%	60 Hz ± 0.1%	50 Hz ± 0.1%
POWER CONVERSION METHOD	Oscillator	Current mode control	Current mode control	Current mode control	Current mode control	Current mode control	Current mode control
OUTPUT WAVEFORM	Single phase, pure sine wave, < 3% total harmonic distortion	Single phase, true sine wave, < 3% total harmonic distortion	Single phase, true sine wave, < 3% total harmonic distortion	Single phase, true sine wave, < 3% total harmonic distortion	Single phase, true sine wave, < 3% total harmonic distortion	Single phase, true sine wave, < 3% total harmonic distortion	Single phase, true sine wave, < 3% total harmonic distortion
WEIGHT	0.28 lbs	2.2 lbs	2.2 lbs	2.6 lbs	3.9 lbs	7.3 lbs	7.3 lbs
DIMENSIONS	1.43" H x 2.75" L x 3.0" W	2.02" H x 6.7" L x 5.94" W	2.02" H x 6.7" L x 5.94" W	2.02" H x 6.7" L x 5.94" W	2.74" H x 6.71" L x 6.34" W	3.45" H x 12" L x 6.32" W	3.45" H x 12" L x 6.32" W
EFFICIENCY	60%	87 – 90%	87 – 90%	87 – 90%	85 – 90%	87 – 90%	87 – 90%
REMOTE CONTROL	None	Remote On/Off	Remote On/Off	Remote On/Off	Remote On/Off	Remote On/Off optional	Remote On/Off optional
PROTECTION	Transient and reverse polarity protected	Input transient, overload, short-circuit protection (up to 150% of rated load without damage) and ground fault interrupter (GFI) protection	Input transient, overload, short-circuit protection (up to 150% of rated load without damage) and ground fault interrupter (GFI) protection	Input transient, overload, short-circuit protection (up to 150% of rated load without damage) and ground fault interrupter (GFI) protection	Input transient, overload and short-circuit protection (up to 150% of rated load without damage)	Input transient, overload and short-circuit protection (up to 150% of rated load without damage)	Input transient, overload and short-circuit protection (up to 150% of rated load without damage)
ALTITUDE	-1,000 to +50,000 feet	55,000 ft	55,000 ft	55,000 ft	55,000 ft	55,000 ft	55,000 ft
HUMIDITY	0 to 95% at 25˚C	Tested to greater than 95% for 10 days, temperature cycle of 100°F to 150°F	Tested to greater than 95% for 10 days, temperature cycle of 100°F to 150°F	Tested to greater than 95% for 10 days, temperature cycle of 100°F to 150°F	Tested to greater than 95% for 10 days, temperature cycle of 75°F to 160°F	Tested to greater than 95% for 10 days, temperature cycle of 75°F to 160°F	Tested to greater than 95% for 10 days, temperature cycle of 75°F to 160°F
TEMPERATURE	–65°F to +160°F (-55°C to +71°C)	–65°F to +160°F (-55°C to +71°C)	–65°F to +160°F (-55°C to +71°C)	–65°F to +160°F (-55°C to +71°C)	–65°F to +160°F (-55°C to +71°C)	–65°F to +160°F (-55°C to +71°C)	–65°F to +160°F (-55°C to +71°C)
INTEGRAL COOLING	None required	None required	None required	None required	Dual, electronically-controlled brushless fans	Dual, electronically-controlled brushless fans	Dual, electronically-controlled brushless fans
CONNECTOR	Terminal block	MS3106A-18-9S (MCI P/N 9016905-1,-2)	MS3106A-18-9S (MCI P/N 9016905-1,-2)	MS3106A-18-9S (MCI P/N 9016905-1,-2)	MS3106A-18-9S (MCI P/N 9016905-1,-2)	MS3106A24-12S MS3057-16A (cable clamp / backshell)	MS3106A24-12S MS3057-16A (cable clamp / backshell)
MOUNTING	Base mount	Flexible orientation	Flexible orientation	Flexible orientation	Flexible orientation	Flexible orientation	Flexible orientation
CASE	Anodized aluminum base plate, blue	Anodized aluminum base plate, blue	Anodized aluminum base plate, blue	Anodized aluminum base plate, blue	Anodized aluminum base plate, blue	Anodized aluminum base plate, blue	Anodized aluminum base plate, blue
CERTIFICATION	FAA PMA approved	FAA TSO-C73 certified RTCA DO-160G qualified	FAA TSO-C73 certified RTCA DO-160G qualified	FAA TSO-C73 certified RTCA DO-160G qualified	FAA TSO-C73 certified RTCA DO-160F qualified	FAA TSO-C73 certified RTCA DO-160G qualified	FAA TSO-C73 certified RTCA DO-160G qualified
WARRANTY	Two-year limited	Two-year limited	Two-year limited	Two-year limited	Two-year limited	Two-year limited	Two-year limited

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