

TEBEVERT Inverter Series

5 to 25kVA Inverter System

- › NEBs level 3 certified to assure compatibility with the telecommunications environment
- › Hot swap 5kVA inverter modules
- › Hot swap static switch module
- › Integrated maintenance bypass switch
- › Automatic master-slave operation
- › Up to five inverter modules can be paralleled as load increases



TEBEVERT DSP

TEBEVERT DSP Inverter Series

60Hz Models		
Output Capacity:	5 to 25kVA	
Maximum Number of Modules:	5	
Input		
Nominal Bypass AC Input:	120Vac	208, 220, 240, 480Vac
Number of Bypass AC Phases:	1	2
Bypass AC Input Wiring:	L, N, PE	L1, L2, PE
Nominal DC Input:	-48Vdc or 120Vdc (requires different inverter modules)	
DC Input Range:	-15%	+20%
Reflected DC Ripple (48Vdc) (120Vdc):	<2mV reverse smoothing, <5% RMS	<2mV reverse smoothing, <5% RMS
Output		
Nominal AC Output Voltage:	120Vac	120Vac
Optional AC Output Voltage:	120/240Vac	120/240Vac
Output Voltage Regulation:	±5% for all combinations of line, load and temperature	
Output Power Factor:	0.7 lagging to 0.8 leading	
Output Voltage Waveform:	PWM Sine wave	PWM Sine wave
Output Crest Factor:	2.8:1	2.8:1
Output Voltage Distortion:	<3% @ 100% rated linear load	
Output Overcurrent Protection:	Electronic current limiting	
Overload Rating (Inverters):	200% for approx. 75 cycles (1.25 seconds)	
Overload Rating (Static Bypass):	500% for 100ms	500% for 100ms
System Operating Efficiency:	>85% (on-line mode) / >97% (off-line mode)	
Frequency Stability:	±0.1% free running, ±3% when AC present	
Module Capacity:	5kVA/4kW	5kVA/4kW
Static Switch Transfer Time:	<2ms	<2ms

60Hz Models	
	120, 208, 220, 240, 480Vac
Output Capacity:	5 to 25kVA
Cooling:	Temperature controlled fans
Maintenance Bypass Switch:	Standard make-before-break mechanically interlocked switch provided on all models equipped with the static bypass module
Remote Alarming:	(1) Form-C Summary Alarm, Optional Relay Card (8 Alarms), Optional SNMP
LED Indicators (Inverter Modules):	Output present, fault, overload, AC synchronized, parallel operation
LED Indicators (Static Bypass Module):	Power flow diagram, normal, fault, AC present, DC present, overload, load on bypass, load on inverter
Metering:	(4) segment LCD display switchable between output voltage and current
Cabinet Dimensions (in/mm):	84 x 23.6 x 23.6 / 2134 x 600 x 600
Standards	
Radio Interference:	Certified to Telecordia GR-1089
Safety Listing:	UL60950, UL, cUL Pending
Product Certification:	NEBS Level 3
Environmental	
Seismic Rating:	NEBS Level 3, Seismic Zone 4 Optional
Elevation:	1800m / 6000ft, 4000m / 1300ft at 30°C/86°F
Operating Temperature:	-5 to 50°C / 23 to 122°F
Operating Humidity:	0 to 95% non-condensing
Module Data:	
	5kVA
Power Rating:	5000VA / 4000W
Nominal Input Current (-48Vdc):	98A
Max. Input Current (-48Vdc):	115.4A
Output Current (120Vac):	41.6A