

TEBEVERT III MODULAR 5-25 kVA INVERTER SYSTEM

The BENNING TEBEVERT III Modular System is designed to address the critical AC power requirements of telecommunications and information technology applications. The TEBEVERT III Modular Inverter System can be scaled in 5 kVA increments up to 25 kVA. Unlike conventional stand alone inverters, these modules operating in parallel can also be operated in N+1 redundant configuration. This insures power availability for your critical applications. A failure of one inverter module will not effect the operation of the remaining modules. Since all units are designed for "hot plug" replacement, a faulty module can easily be unplugged and replaced without disturbing critical loads.



Key Features

- NEBS Level 3 Certified
- No Single Point Of Failure
- Cabinet Requires No Rear Access
- Automatic Master-Slave Operation
- Integrated Maintenance Bypass Switch
- User Friendly Display Of Operating Mode
- Complies with EN 55022 Class B Requirements
- Bulk DC Input or Individual DC Input per Module
- High Efficiency Operation, Lowers Operating Costs
- Hot Plug 5 kVA Inverter and Static Switch Modules
- Less than 3% Harmonic Distortion on Output Voltage
- Up to Five Inverter Modules Can Be Paralleled To Meet Load Requirements
- Can Be Used With 120, 208, 220, 240, or 480VAC Commercial AC By-pass
- 500% Overload Capability Supports High Inrush Current Loads
- Can Supply Fully Protected 120 or 120/240VAC Output
- Optional—Remote Monitoring via SNMP, or HTML
- Optional—Internal AC Load Distribution Circuit Breakers
- Optional—Molded Case Output Circuit Breaker



Technical Specifications

SYSTEM	Maximum System Capacity	5-25 kVA (4-20 kW)
	Inverter Module Rating	5 kVA (4 kW)
	Maximum Modules Per System	5
	Overload Capability	200% for Approx. 1.25 Seconds (Module)
	Static Bypass Switch (SBS)	Standard
	SBS Priority	Inverter or Commercial AC By-pass
	SBS Transfer Time	<2ms
	SBS Overload Capability	500% for 100ms
	SBS Transfer Criteria	Overload, Modules Over Temperature, Short Circuit On Output, Low DC Voltage, Manual Initiation, and Output AC Voltage Out Of Range
	Remote Alarming	(1) Form "C" Summary Alarm; Optional Relay Card (8 Alarms), HTML and SNMP Alarms Available
	Metering	Graphic Display, Power Flow diagram, and LED's, Optional Digital Metering
	Indicators	On, Output Present, DC Input OK, Inverter Fault, Parallel Operation, Overload, and Bar Graph for Output Power
	AC BYPASS & SYSTEM OUTPUT	AC Output Voltage
AC Output Current (Max) @ 120 VAC		208 A (0.8 leading), 168 A (Unity pf)
AC Output Frequency		60Hz
Commercial AC By-pass Input Voltages Available		120 VAC Standard, Optional—208, 220, 240 or 480VAC
Load Power Factor Range		0.7 Lagging to 0.8 Leading
Output Voltage Regulation		+/- 5% For All Combinations of Line, Load, and Temperature
Distortion		< 3% @ 100% Rated Linear Load
DC INPUT	DC Input Voltage	40.8 to 60VDC (48VDC nominal)
	DC Input Current/Module	93A @54VDC (115 A max), 150A DC Input Protection Recommended/Module or 700A DC Input Protection for Bulk DC Systems Recommended
	DC Inrush Current	Soft Start, Current Limited
	Efficiency	>86.5% (on-line mode) / >97% (off-line mode)
OPERATING CONDITIONS	Operating Temperature Range	32° to +131° F (0° to +55°C)
	Operating Humidity Range	0-95% Non-Condensing
	Heat Output Per Module	< 2,040 BTUs Per Hour @ 100% Load
	Cooling	Temperature Controlled Fans
	Elevation	6000' (1800 m)
PHYSICAL	Cabinet Dimensions	84" x 23.6" x 23.6" (2134 mm x 600 mm x 600 mm)
	Cabinet Weight	765 lbs. (347 Kg) without Modules
	Inverter Module Weight	77.2 lbs. (35 Kg)
	Module Mounting	Hot Pluggable
WORLDWIDE STANDARDS	Safety	UL60950
	Design	Seismic Zone 0 (Standard), NEBS Level 3— Zone 4 Optional
	EMI Emissions	GR-1089, EN62040-2, FCC Class A
	EMI Immunity	GR-1089, EN61000-4-4, EN610004-5
	Electrostatic Discharge Immunity	EN61000-4-2

Benning Power Electronics, Inc.
 1220 Presidential Dr. Richardson, TX 75081
 E-Mail: sales@benning.us
 Web: www.benning.us

Toll Free North America: 800.910.3601
 Local: 214.553.1444
 Canada: 905.997.6076
 Fax: 214.553.1355