

TeleStar™ III Series Three Phase DC to AC Inverters (20 - 40kVA) The ONEAC TeleStar Series is designed for telecom and datacom users who demand the best performance and maximum reliability from their electronic systems in DC Plant environments. Built to last, the TeleStar Series DC to AC Inverters provide clean AC power to ancillary loads while protecting the battery plant and associated rectifiers. The TeleStar III features an IGBT-based design that ensures the reliability of critical AC loads and eliminates the upstream cross-pollution of branch circuits. TeleStar III: for a higher level of confidence in DC to AC power.

20 to 40kVA DC to AC Inverter

This true on-line inverter design insures maximum critical load protection. The inverter converts existing 48VDC battery power into an isolated, conditioned and uninterruptible source of AC. This reliable and cost effective solution includes standard features such as a static bypass switch and wraparound maintenance bypass switch.

Supports DC plant

The TeleStar III is intended for use in applications where the end use devices are particularly sensitive to disturbances in the AC power line. Telestar III combines extremely high efficiencies with the reliability of leading edge power electronics to deliver a true sinusoidal, three-phase waveform. The Insulated Gate Bipolar Transistor (IGBT) power circuit provides excellent PWM output control to insure excellent voltage regulation.

Full feature control set

Provided with a full Human Machine Interface (HMI) mimic panel with tactile feedback keys, the control panel displays all pertinent system conditions including multiple LCD meters for input and output parameters.



- **Engineered to Deliver a Longer Service Life Than Competing Products**
- **1% Voltage Regulation**
- **Complete Maintenance Bypass Circuit for Service Ease**
- **Input and Output LCD Volt and Amperage Displays**
- **Top Cable Entry as Standard**
- **Circuit Breaker Protection**
- **Form C Alarm Contacts**
- **Low Voltage Signaling Contacts**
- **Individual LCD Meters**
- **HMI Operator Control Interface**
- **Multiple Remote Alarm Panels (optional)**
- **Customized Input DC Voltage (optional)**
- **Higher Load Capacities (optional)**

TeleStar III Series: Specifications

Input	20kVA		40kVA	
Nominal Voltage (DC)	48		48	
Current (kilowatts)	16		32	
Protection (Circuit Breaker)	200ADC		400ADC	
Efficiency	DC to AC - 87%		DC to AC - 84%	
Number of Cells	Lead Acid -24, Nicad - 36		Lead Acid -24, Nicad - 36	

Output	20kVA	20kVA	40kVA	40kVA
Power Rating	20kVA/16W	20kVA/16W	20kVA/16W	20kVA/16W
Nominal Voltage	120 - 208	277 - 480	120 - 208	277 - 480
Current	56A	24A	111A	48A
Frequency	60Hz	60Hz	60Hz	60Hz
Frequency Stability	± 0.01%	± 0.01%	± 0.01%	± 0.01%
Acceptable Bypass Sync.	<1 cycle	<1 cycle	<1 cycle	<1 cycle
Regulation	± 1%	± 1%	± 1%	± 1%
Waveform	Sinusoidal	Sinusoidal	Sinusoidal	Sinusoidal
Crest Factor	3:1	3:1	3:1	3:1
Harmonic Distortion	< 1%	< 1%	< 1%	< 1%
Overload	150% 8 seconds	150% 8 seconds	150% 8 seconds	150% 8 seconds
Protection	IEC	IEC	IEC	IEC

Environmental	20kVA	40kVA
Operating Temperature	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)
Cooling	redundant forced air (convection)	redundant forced air (convection)
Heat Dissipation	9212 BTU/hr. at full load (15kW)	24500 BTU/hr. at full load
Humidity	99% non-condensing	99% non-condensing
Audible Noise	<50 dBa @ 1 meter	<50 dBa @ 1 meter
Altitude (operating)	7000 ft (2134 meters) - + 3% for each additional 1000 ft (305 meters)	7000 ft (2134 meters) - + 3% for each additional 1000 ft (305 meters)
Maximum Height In. (cm.)	80 (203.2)	80 (203.2)
Maximum Width In. (cm.)	60 (152.4)	60 (152.4)
Maximum Depth In. (cm.)	30 (76.2)	30 (76.2)
Net Weight lbs. (kg.)	2450 (1103)	2450 (1103) 3700 (1665)
Enclosure	NEMA 1 equivalent	NEMA 1 equivalent
UL	Pending	Pending

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(800) 327 8801 EXT. 2 in USA AND CANADA

27944 N. Bradley Road, Libertyville, IL 60048 Phone 847 816-6000 FAX 847 680-5124

+44 (0) 1235 534721 in UK AND EUROPE

18 & 20 Blacklands Way, Abingdon Business Park, Abingdon, Oxfordshire OX14 1DY, UK FAX +44 0 1235 534197