

# DSP Inverter Series

## 1 to 15kVA Inverter System

- Nebs level 3 certified to assure compatibility with the telecommunications environment
- Fourth generation DSP architecture utilizing SMD for high reliability and MTBF
- Hot swap EUE static switch and inverter modules
- 6 or 15kVA EUE static switch available



DSP inverter

### DSP Inverter Series

Inverter Module Rating:	1kVA	2.5kVA
Nominal System Output Capacity with One Rack Shelf:	1 to 5kVA (6kVA w/o EUE)	2.5 to 12.5kVA (15kVA w/o EUE)
Nominal Bypass AC Input:	120Vac	120Vac
Number of Bypass AC Phases:	1	1
Bypass AC Input Wiring:	L, N, PE	L, N, PE
Bypass Voltage Tolerance:	±10% (Adjustable ±5% to ±15%)	±10% (Adjustable ±5% to ±15%)
Maximum System Capacity with Two Rack Shelves, without EUE:	12kVA	30kVA
Nominal DC Input:	-48Vdc	-48Vdc
DC Input Range:	40.8 to 60Vdc	40.8 to 60Vdc
<b>Output</b>		
Nominal AC Output Voltage:	120Vac	120Vac
Output Voltage Regulation:	±5% for all combinations of line, load and temperature	
Output Power Factor:	0.7 lagging to 0.8 leading	0.7 lagging to 0.8 leading
Output Voltage Waveform:	DSP Sine wave	DSP Sine wave
Output Crest Factor:	2.8:1	2.8:1
Output Voltage Distortion:	<3% @ 100% rated linear load	<3% @ 100% rated linear load
Output Overcurrent Protection:	Electronic current limiting	Electronic current limiting
Overload Rating (Inverters):	110% continuous, 120% for ~1 minute, 200% for ~4 seconds	
Overload Rating (Static Bypass):	500% for 100mS	500% for 100mS
Optional Maintenance Bypass Switch:	Internally mounted, Make-before-break mechanically interlocked switch provided on all models equipped with the EUE static bypass module	
Inverter Module Rating:	1kVA	2.5kVA
Remote Alarming:	(1) Form-C Inverter fault, (1) Form-C Static Switch fault	
LED Indicators (Inverter Modules):	On, Output present, DC Input OK, Inverter Fault, Parallel Operation, Overload, Bar graph for output power	
Display/Metering (EUE, Static Bypass Module):	Graphic Display (Menu Driven, password protected), Power flow diagram, LED's (Normal, fault)	
<b>Mechanical</b>		
Rack Shelf Dimensions (in/mm):	12.25 x 23 x 19.8 / 311 x 584 x 503	12.25 x 23 x 25.25 / 311 x 584 x 590
Radio Interference:	Certified to Telecorodia GR-1089	Certified to Telecorodia GR-1089
Safety Listing:	UL60950	UL60950
Product Certification:	NEBS Level 3, Seismic Zone 4	NEBS Level 3, Seismic Zone 4
Elevation:	<3000m / 10000ft without derating	<3000m / 10000ft without derating
Operating Temperature:	0 to 55°C / 32 to 131°F	0 to 55°C / 32 to 131°F
Operating Humidity:	0 to 95% non-condensing	0 to 95% non-condensing
Power Rating:	1000VA / 800W	2500VA / 2000W
Nominal Input Current (-48Vdc):	19A	47A
Maximum Input Current:	22.5A	55A
Output Current (120Vac):	8.33A	20.83A
Weight (lb/kg):	11 / 5	17.6 / 8