



# NESR-1600 SERIES

## 1600VA TELECOM INVERTER

- » ZERO TRANSFER TIME
- » STANDARD 19" 2U RACKMOUNT
- » SELECTABLE DC MODE / AC MODE
- » HIGH EFFICIENCY UP TO 97% AT AC MODE
- » DUAL INPUT SOURCES ( AC & DC )
- » UP TO 32 MODULES CAN BE CONNECTED IN PARALLEL
- » HOT SWAPPABLE MODULE DESIGN
- » REPLACABLE FAN MODULE TO MAKE MAINTENANCE EASILY
- » INPUT PROTECTION:  
REVERSE POLARITY / UNDER VOLTAGE /OVER VOLTAGE
- » OUTPUT PROTECTION: SHORT CIRCUIT/ OVER TEMPERATURE
- » UNITY POWER FACTOR AT AC INPUT
- » WIDE AC&DC INPUT RANGE 150VAC TO 265VAC / 36VDC TO 68VDC WITH STABLE AC OUTPUT 230VAC



MODEL		NESR-1600-124	NESR-1600-148	NESR-1600-224	NESR-1600-248
AC OUTPUT	RATING POWER	1200 W / 1600 VA	1600 W / 1600 VA	1200 W / 1600 VA	1600 W / 1600 VA
	SHORT TIME OVERLOAD CAPACITY	150% - 15 sec.			
	NOMINAL VOLTAGE (AC)	120 VAC		230 VAC	
	OUTPUT VOLTAGE RANGE (AC)	100 - 120 VAC ±3%		200 - 240 VAC ±2%	
	EFFICIENCY AC MODE (MAX.)	96%		97%	
	EFFICIENCY DC MODE (MAX.)	91%	92%	91%	93%
	FREQUENCY RANGE	50 / 60 Hz			
	FREQUENCY ACCURACY	± 0.01%			
	THD (ABOVE 50% RESISTIVE LOAD)	< 3%			
	TURN ON DELAY	< 10 sec.			
	CREST FACTOR AT NOMINAL VALUE	DC MODE: 3:1 / AC MODE: 6:1		DC MODE: 3:1 / AC MODE: 10:1	
AC INPUT	NOMINAL VOLTAGE (AC)	120 VAC		230 VAC	
	VOLTAGE RANGE (AC)	75 ~ 132 VAC ±3%		150 ~ 265 VAC ±2%	
	POWER FACTOR @ RATING POWER	> 0.99			
	FREQUENCY RANGE	50 / 60 Hz			
	SYNCHRONIZATION RANGE	47 ~ 53 Hz , 57 ~ 63 Hz			
DC INPUT	NOMINAL VOLTAGE (DC)	24 VDC	48 VDC	24 VDC	48 VDC
	VOLTAGE RANGE (DC)	18 ~ 34 VDC ± 3%	36 ~ 68 VDC ± 3%	18 ~ 34 VDC ± 3%	36 ~ 68 VDC ± 3%
	NOMINAL CURRENT (AT 24 VDC / 48 VDC)	56 A	37 A	56 A	37 A
	MAXIMUM INPUT CURRENT (15 SEC.)	90 A	60 A	90 A	60 A
SIGNAL & CONTROL	INDICATOR	LED			
	ADVANCED CONTROL	RS485 CONTROL INTERFACE			
	FAILURE INDICATION	BUZZER ALARM			

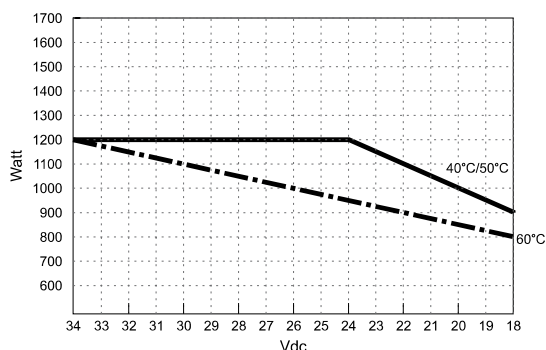


For more information, please visit us at [www.novaelectric.com](http://www.novaelectric.com) or email us at [novales@theallpower.com](mailto:novales@theallpower.com)

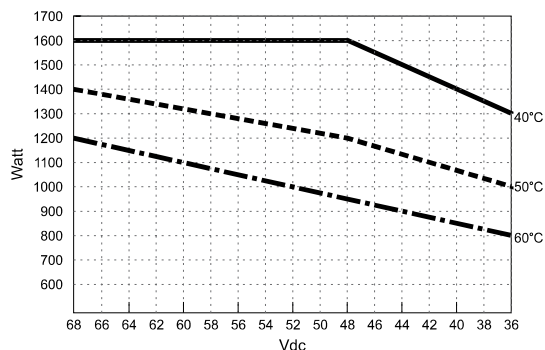
MODEL		NESR-1600-124	NESR-1600-148	NESR-1600-224	NESR-1600-248
PROTECTION	DC INPUT	OVER / UNDER VOLTAGE, REVERSE POLARITY			
	AC INPUT	OVER / UNDER VOLTAGE, OVER CURRENT			
	OUTPUT	SHORT CIRCUIT, OVERLOAD, OVER TEMPERATURE			
TRANSFER PERFORMANCE	INVERTER TO UTILITY AC	0 sec.			
	UTILITY AC TO INVERTER	0 sec.			
ENVIRONMENT	OPERATING TEMPERATURE	-25°C ~ 40°C; REFER TO NESR POWER DERATING CURVE			
	STORAGE TEMPERATURE	-40°C ~ 70°C			
	RELATIVE HUMIDITY	95%; NON-CONDENSING			
	VIBRATION	BS EN 61373			
SAFETY & EMC	SAFETY STANDARDS	MEET UL 60950-1		CERTIFIED EN60950-1	
	EMC STANDARDS	CERTIFIED FCC CLASS B		Certified EN 55022 Class B; EN 61204-3; EN 55024; EN 61000-3-2, -3-3, -6-1, -6-3; IEC 61000-4-2, 3, 4, 5, 6, 8, 11	
OTHERS	DIMENSION MODULE (W x H x D)	4.13" x 3.27" x 16.14" [ 105 mm x 83 mm x 410 mm ]			
	DIMENSION RACK (W x H x D)	17.56" x 3.35" x 20.04" [ 446 mm x 85 mm x 509 mm ]			
	WEIGHT (MODULE/RACK)	8.38 lbs [ 3.8 kg ] / 14.33 lbs [ 6.5 kg ]			

## DE-RATING CURVE

NESR-1600-124/224:



NESR-1600-148/248:



## MECHANICAL SPECIFICATIONS

