



- Compact 19" Rack Mount Chassis
- Lightweight Design
- Input Active Power Factor
 Correction
- Smart Sleep Function
- 7" Color Touch Screen Display
- Configurable for Three
 Phase or Single Phase
 Operation

CONTACT

100 School Street, Bergenfield, NJ 07621 USA

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NSF. ISO9001:2015

NEDM Series 10-50 KW True Online COTS UPS





NEDM11-20K Front and Rear View - 2 Module UPS





NEDM11-30K Front and Rear View - 3 Module UPS

GENERAL OVERVIEW

Nova Electric's NEDM Series double conversion True Online UPS is fully convertible and can ordered in freestanding or rack mount configurations. Two-bay model NEDM11-20K-120/208 utilizes up to two 2U NEPD-10K-120/208 UPS modules rated to 10 KW each, allowing 10 KW (single module) or 10 KW N+1 (two module) operation. Three-bay model NEDM11-30K-120/208 utilizes up to three 2U NEPD-10K-120/208 UPS modules rated to 10 KW each, allowing 10 KW (single module) or 30 KW N+1 operation. Five-bay model NEDM11-50K-120/208 utilizes up to five 2U NEPD-10K-120/208 UPS modules rated to 10 KW each, allowing 10 KW (single module) or 30 KW N+1 operation. Five-bay model NEDM11-50K-120/208 utilizes up to five 2U NEPD-10K-120/208 UPS modules rated to 10 KW each, allowing 10 KW (single module) or 30 KW N+1 operation.

The fully convertible design allows this UPS to be configured as follows:

1) Three phase input and output

- 2) Single phase input and output
- 3) Three Phase input and single phase output (with derating to 60%)
- 4) Single phase input and three phase output (with derating to 60%)

This UPS offers many advanced features including input active power factor correction, Smart Sleep function, Self Aging mode, and a 6.75" color touch screen interface.

The Leader In Rugged Power Conversion Technology Since 1966





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Typical Applications Include:

- Internet Data Centers
- Utility Applications
- Network Servers and Work Stations
- Control Systems

- Communication Systems
- Office Applications
- Rugged Industrial Applications

Please note: For 19" rack mount configuration, mounting rails should be used above and below the UPS chassis for proper support. The 19" rack mount battery drawers must be mounted with slide rails.

Modular 19" Compact Rack Mount Design

6³/₄" Color LCD Touch Screen

Intelligent Charging Management to increase battery life

High Power Density – 10 KW in 2U Height Smart Sleep Function shuts down power modules to increase loading, achieving higher efficiency UPS can be converted to 19" rack mount and integrated into the same cabinet as the PDU, battery drawers, and external maintenance bypass for smaller overall system dimensions



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SPECIFICATIONS

NEDM11-50K-120/208	NEDM11-30K-120/208	NEDM11-20K-120/208							
50kVA/50kW	30kVA/30kW	20kVA/20kW							
(Note: When configured (Note: When configured (Note: When config									
single-phase output, orsingle-phase output, orsingle-phase output, orsingle-phase input / threesingle-phase input / threesingle-phase input / threephase output, deratephase output, deratephase output, derate									
							power to 60% of nominal.)		
						Up to 5 Modules NEPDX-10K-120/208	Up to 3 Modules NEPDX-10K-120/208	Up to 2 Modules NEPDX-10K-120/208	
3 Phase -	+ Neutral + Ground Nominal (1	20/208 VAC)							
188~260VAC (Line-Line), full load; 125V~187VAC (Line-Line), load derated linearly									
50/60 Nominal (40Hz-70Hz Range)									
>0.99									
THDi<4% @ 100% linear load									
120/208 VAC									
±1% for balance load; ±1.5% for unbalance load									
0.8 Lead to 0.8 Lag									
THD<1% (linear load), THD<5.5% (non-linear load)									
Up to 3:1									
110% for 10 min;	125% for 1 min; 150% for 30 s;	>150% for 200ms							
240 VDC with Centertap									
	20% of System kW Rating								
	±1%								
Normal mode	: 93%; ECO mode: 98%; Battery	/ mode: 92.5%							
0.75 001									
Standard: RS232, RS485, Dry contacts; Optional: SNMP card									
	0-40°C/- 40-70°C								
	0-40°C/- 40-70°C	eter away)							
	0-40°C/- 40-70°C 0-95% (non-condensing)	eter away)							
58dB @	0-40°C/- 40-70°C 0-95% (non-condensing)	eter away) 92.4 / 42							
58dB@ / kg)	0-40°C/- 40-70°C 0-95% (non-condensing) full load, 52dB @ 45% load (1 m								
58dB@ / kg)	0-40°C/- 40-70°C 0-95% (non-condensing) full load, 52dB @ 45% load (1 m 114.2 / 52								
58dB @ / kg) 187 / 85	0-40°C/- 40-70°C 0-95% (non-condensing) full load, 52dB @ 45% load (1 m 114.2 / 52								
	NEDM11-50K-120/208 50kVA/50kW (Note: When configured for three-phase input / single-phase output, or single-phase output, derate power to 60% of nominal.) Up to 5 Modules NEPDX-10K-120/208 3 Phase 188~260VAC (Line-Line), f ±1% for h 110% for 10 min; 110% for 10 min; 110% for 10 min;	NEDM11-50K-120/208NEDM11-30K-120/20850kVA/50kW30kVA/30kW(Note: When configured for three-phase input / single-phase output, or single-phase output, derate power to 60% of nominal.)30kVA/30kWUp to 5 Modules NEPDX-10K-120/208Up to 3 Modules NEPDX-10K-120/2083 Phase + Neutral + Ground Nominal (# 188~260VAC (Line-Line), full load; 125V~187VAC (Line-Line)50/60 Nominal (40Hz-70Hz Rang 50/60 Nominal (40Hz-70Hz Rang >0.99120/208 VAC ±1% for balance load; ±1.5% for unbala0.8 Lead to 0.8 LagTHD<1% (linear load), THD<5.5% (non-lin Up to 3:1110% for 10 min; 125% for 1 min; 150% for 30 s; 20% of System kW Rating ±1%Normal mode: 93%; ECO mode: 98%; Battery 6.75" color touch screen LCD + LED + K IP20							

*Specifications subject to change.

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SPECIFICATIONS (CONT.)

AVAILABLE BATTERY RUN TIME FOR UP TO SEVEN 3U TALL HIGH RATE BATTERY DRAWERS								
	POWER CAPACITY IN KW PER NUMBER OF BATTERY DRAWERS*							
BACK UP TIME (MINUTES)	1	2	3	4	5	6	7	
2	10.3	20.6	30.9	41.2	2	~	2	
4	7.7	15.4	23.1	30.8	38.5	46.2	2	
6	6.3	12.6	18.9	25.2	31.5	37.8	44.1	
8	5.3	10.6	15.9	21.2	26.5	31.8	37.1	
10	4.7	9.4	14.1	18.8	23.5	28.2	32.9	
15	-3.5	7	10.5	14	17.5	21	24.5	
20	2.9	5.8	8.7	11.6	14.5	17.4	20.3	
30	2.1	4.2	6.3	8.4	10.5	12.6	14.7	
60	1.2	2.4	3.6	4.8	6	7.2	8.4	
90	0.9	1.8	2.7	3.6	4.5	5.4	6.3	
* THE KW RATING MUST NOT EXCEED THE RATING FOR THE NUMBER OF POPULATED 10 KW MODULES								

IN THE SYSTEM





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RUGGED AC POWER SYSTEMS



SELECT UNITS QUALIFIED TO MIL-STD-810, MIL-S-901, MIL-STD-1399, MIL-STD-461, MIL-STD-167, MIL-STD-740, RTCA/DO-160, AND MORE

RUGGED TRUE ONLINE UPS



500 W – 500+ KW Rack Mount, Bulkhead Mount, and Freestanding Single and Three Phase 50, 60, and 400 Hz.



For MIL-STD-461 Compliance Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

PURE SINEWAVE DC-AC INVERTERS



100 W – 500+ KW Rack Mount, Bulkhead Mount, and Freestanding Single and Three Phase 50, 60, and 400 Hz.

RUGGED PORTABLE TRANSFORMERS



100 W – 500+ KW Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

SOLID-STATE FREQUENCY CONVERTERS



100 W – 500+ KW Rack Mount, Bulkhead Mount, and Freestanding Single and Three Phase 50, 60, and 400 Hz.

EXTERNAL MAINTENANCE BYPASS SWITCHES (MBSs)



Rack Mount, Bulkhead Mount, and Freestanding Single and Three Phase

POWER DISTRIBUTION UNITS (PDUs)



Basic, Switched, Auto-Transfer Switching, and Metered Configurations

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

CUSTOM DESIGNS



Designed & Built to Spec Integrated AC & DC Capabilities Multiple Outputs



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