



#### **FEATURES**

- Power Factor Corrected Input
- Ultra Light Weight Design
- Built To Meet MIL-STD-810 and MIL-STD-461

#### **APPLICATIONS**

- Military Shelters
- Ground Support
- Mobile Systems
- Tactical Systems
- Shipboard Applications
- Airborne Applications
- Military Ground Vehicles
- Communications Systems

#### CONTACT

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# **GRSLPFC-Series Rugged True Online UPS**

**Compact 500 Watt UPS with Internal LiFePO4 Battery Pack** 



#### **GENERAL OVERVIEW**

Nova Electric's Model GRSLPFC11-5060-120-120-HR2U Rugged True Online UPS Systems are intended for harsh environment and military applications wherever pure sinewave utility-like power is required. These units are specifically designed for compliance to MIL-STD-810 for shock, vibration, and humidity, as well as MIL-STD-461 for EMI, offering maximum field-proven reliability. The GRSLPFC's Standard Freestanding Chassis measures only 3.5" High x 10" Wide x 13" Deep, with an overall weight of just 14 pounds total including the internal LiFePO4 Battery Pack.





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Front Panel View



**Rear Panel View** 

#### **SPECIFICATIONS**

#### **AC Input**

VOLTAGE RANGE (UNIVERSAL)	120 +/-10% (108-132) VAC	
FREQUENCY RANGE	47 - 63 Hz	
NOMINAL CURRENT	5A @, 120Vac	
INRUSH CURRENT (TYPICAL)	20A	
EFFICIENCY (TYPICAL)	86%	
POWER FACTOR (TYPICAL)	0.99	
LEAKAGE CURRENT	<3mA @ 120VAC	

#### **AC Output**

RATED VOLTAGE	120 VAC (± 5%) 1Ø	
FREQUENCY	60 (± 0.5 Hz)	
RATED MAX. CURRENT	4A	
MAX. RATED CURRENT	500 Watts	
TOTAL HARMONIC DISTORTION	<5% (With Resistive Load)	
RUN TIME ON BATTERY	~8 Minutes @ 25°C, 80% Load	

#### **Indicators**

AC INPUT	Green
BATTERY STATUS	Green
BATTERY CHARGED	Green
BATTERY CHARGING	Yellow
BATTERY DISCHARGING	Red
ALARM ACTIVE	Red

#### **Protective Features**

OVERLOAD			
OUTPUT SHORT	CIRCUIT		
OVER TEMPERA	TURE		
AC INPUT PROT	ECTION		
LIGHTNING PRO	TECTION		
AUDIBLE ALARM WITH SILENCE SWITCH		9/	

#### **Internal Battery Module**

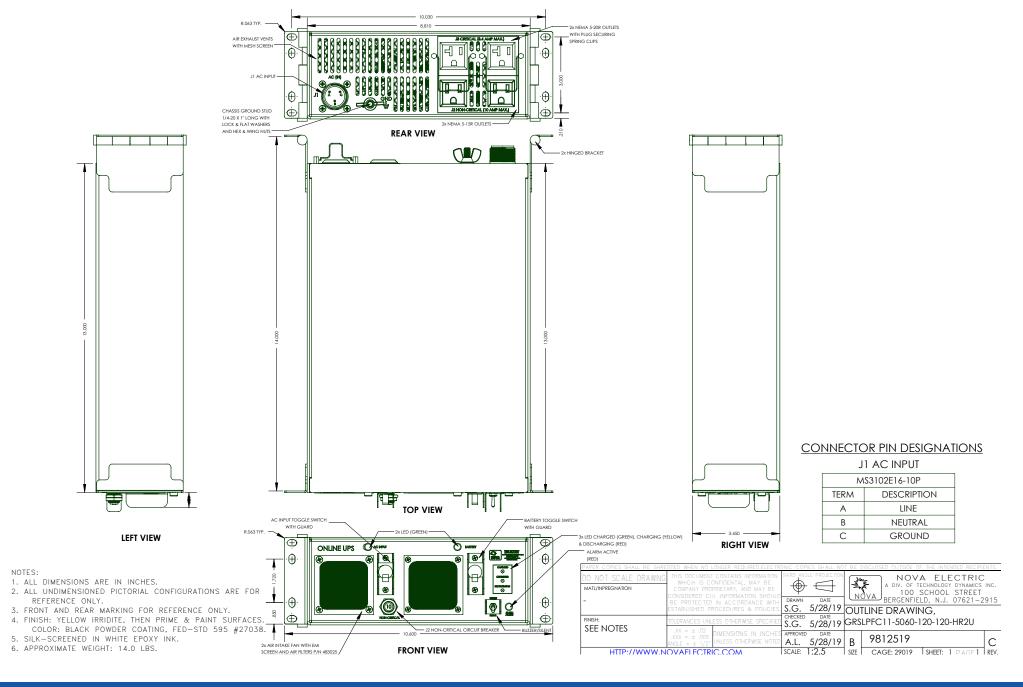
RATING	28 VDC	
AMPACITY	2.5 Ah	
TYPE	Lithium Iron Phosphate	
RECHARGE TIME	3-4 Hours to 95% After Full Discharge	

#### **Environmental**

UPS OPERATING TEMP.	-20° to +50°C (Extended Ranges Optional)
UPS STORAGE TEMPERATURE RANGE	-40° to +71°C (Electronics Only - Extended Ranges Optional)
HUMIDITY	to 95% RH Non-Condensing (All Boards Conformal Coated With Acrylic MIL-1-46058 Type R.)
ELEVATION	Operating: 15,000 Ft. (4,572 m) Non-Operating: 40,000 Ft. (12,192 m)
SHOCK	20 g, 11 mS Half Sinewave
AUDIBLE NOISE	Less Than 55 dbA at 5 ft.
MTBF	100,000+ Hours Per Field Data @ +25°C Ambient Ground-Fixed
MTTR	30 Minutes By Qualified Personnel



#### **GRSLPFC-SERIES OUTLINE DRAWING**







## 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.

## PURE SINEWAVE DC-AC INVERTERS



100 W - 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

50, 60, and 400 Hz.

## SOLID-STATE FREQUENCY CONVERTERS



100 W - 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

50, 60, and 400 Hz.

## POWER DISTRIBUTION UNITS (PDUs)



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

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

#### CUSTOM EMI FILTERS



For MIL-STD-461 Compliance

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

#### RUGGED PORTABLE TRANSFORMERS



100 W - 500+ KW

Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

## **EXTERNAL MAINTENANCE BYPASS SWITCHES (MBSs)**



Rack Mount, Bulkhead Mount, and Freestanding

Single and Three Phase

#### CUSTOM DESIGNS



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

RELIABLE AC POWER WHEN AND WHERE YOU NEED IT

SEVERE ENVIRONMENT PRODUCTS



- AIRBORNE
- SHIPBOARD
  - MOBILE
- RACK MOUNT & FREESTANDING

- · 50, 60, AND 400 Hz
- AIR & WATER COOLED
- · SINGLE AND THREE PHASE
  - LIGHTWEIGHT DESIGNS