

RUGGED LIGHTWEIGHT CGLUPS™ SERIES DC INPUT UPS 20 - 32 VDC INPUT PURE SINEWAVE AC OUTPUT 1.5 - 2KW 19" RACK MOUNT



APPLICATIONS

Nova's CGLUPS-Series DC Input UPS Systems are high-reliability power sources specifically designed for demanding applications in high shock, vibration, humidity, and EMI environments. They can be built to meet MIL-STD-810, MIL-S-901, MIL-STD-1472, MIL-STD-461, and other standards optionally. These models utilize the most durable componentry, offering maximum field-proven reliability for severe environment and high reliability applications such as:

- Shelters
- Aircraft / UAVs
- Tactical Systems
- Shipboard Power
- MIL-STD-810
- MIL-S-901
- HMMWVs
- Mobile Systems
- Ground Support
- MIL-STD-461
- Heavy-Duty Industrial
- Demanding Commercial Requirements
- Communications Systems



NOVA ELECTRIC
www.novaelectric.com
novasales@theallpower.com



A Leader in UPS Technology since 1966 - 500VA to 450KVA

MADE IN USA

ULTRA-LIGHTWEIGHT DC INPUT RUGGED UPS

CAN MEET MIL-STD-810, MIL-STD-1399, MIL-S-901, MIL-STD-704, & MIL-STD-461 OPTIONALLY

APPLICATIONS

The CGLUPS DC Input UPS is intended for Military Applications where pure sinewave battery-backed AC power is required directly from a DC input source. 28 VDC from Aircraft buss or Land Vehicle alternator feeds the CGLUPS and charges the batteries via diode isolation module, which blocks the batteries from feeding back onto the 28 VDC source. If the DC source is lost, the DC UPS continues powering the load using internal batteries for approximately 5 minutes at full load, 0.8PF.

STANDARD FEATURES

- Microprocessor based design with absolutely accurate and stable frequency
- Indicators for battery voltage & load level
- Very low harmonic distortion, THD<3%
- Switch selectable $\pm 10V$ output change
- Below 1W consumption in sleep mode

OPTIONS

- Ruggedization against high shock, vibration, and humidity (MIL-STD-810)
- MS connector mates
- Premium batteries with up to 10 year life
- Custom enclosures

ELECTRICAL

Input Voltage: 20-32 VDC
Output Voltage: 100/110/120 VAC (110V Model)
 220/230/240 VAC (220V Model)
Frequency: 50 or 60 HZ Selectable (+0.05% Accuracy)
Surge Rating: 2KW for 1.5KW Continuous Models
 4KW for 2KW Continuous Models
Efficiency (full load): 83% (110V Model)
 86% (220V Model)
No Load Current: <1.0W Sleep Mode
Output Waveform Sinewave: <3% THD
Output Regulation: -10% / +4% (All models)
MTBF: 30,000 hours per MIL-HDBK-217
MTTR: 30 minutes by qualified personnel

NOMINAL DIMENSIONS

1.5KW Models:
 5.25" High x 19" Wide x 22.5" Deep - 60Lbs.
2KW Models:
 5.25" High x 19" Wide x 24" Deep - 75Lbs.

SPECIFICATIONS

ENVIRONMENTAL

Operating Temp. Range: -20° to +50° C
Storage Temp. Range: -40° to +60° C (with optional premium batteries)
Humidity: 0 - 95% RH non-condensing – Designed to meet MIL-STD-810. All boards conformal coated with Acrylic MIL-1-46058 Type R.
Shock: 20g, 11 ms half sinewave – Designed to meet MIL-STD-810 optionally
EMI: Designed to meet FCC Part 15, Class A. Designed to meet MIL-STD-461 with optional additional filtering.
Elevation: 15,000 ft. (4,572 m) operating**
 40,000 ft. (12,192 m), non-operating**
Audible Noise: Less than 55 dBA at 5 ft. (1.5 m)
Transportation and Handling: MIL-STD-810C

**Follow manufacturer instructions regarding recommended elevation parameters for batteries.

PROTECTIVE FEATURES

Overload, Short Circuit, Reverse Polarity (Fuse), O.T., Over/Under Input Voltage, DC Input & Battery Circuit Breakers

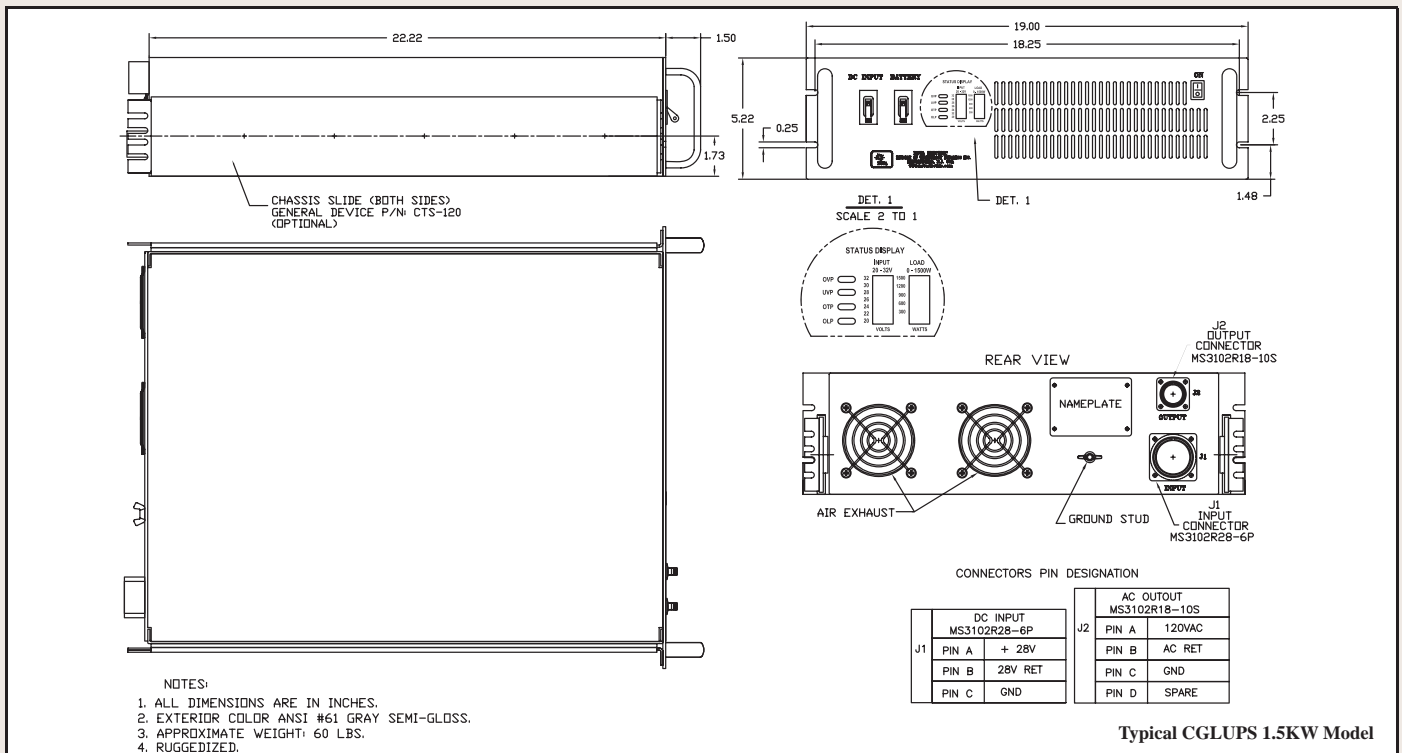
MODEL SELECTION

120 VAC OUTPUT MODELS

MODEL	INPUT RANGE VDC	OUTPUT VAC	OUTPUT FREQ. (Hz.)	CONTINUOUS OUTPUT POWER	RUNTIME
CGLUPS-1.5K-24-120	20-32	120	50 OR 60	1.5KW	5 min.
CGLUPS-2K-24-120	20-32	120	50 OR 60	2KW	4 min

220 VAC OUTPUT MODELS

MODEL	INPUT RANGE VDC	OUTPUT VAC	OUTPUT FREQ. (Hz.)	CONTINUOUS OUTPUT POWER	RUNTIME
CGLUPS-1.5K-24-220	20-32	120	50 OR 60	1.5KW	5 min.
CGLUPS-2K-24-220	20-32	120	50 OR 60	2KW	4 min



WEB : www.novaelectric.com

E-Mail : novasales@theallpower.com

PHONE : (201) 385-0500 FAX : (201) 385-0702



NOVA ELECTRIC

A Division of
 TECHNOLOGY DYNAMICS, INC.
 100 School St., Bergenfield NJ 07621

