

DC Power Conditioners

StartGuard™

The abrupt DC system voltage drop that accompanies engine starting can cause microprocessor-based voice and data transmitters to "dump" programmed memory.



Provides Voltage Protection During Engine Start

StartGuard solves this problem by providing supplemental voltage to sensitive electronics while the engine is cranked. It contains a sealed rechargeable battery which is switched on-line to electronics when the starter switch or solenoid is engaged. When the engine is running StartGuard automatically goes off-line and the internal battery is recharged by the alternator.

Specifications

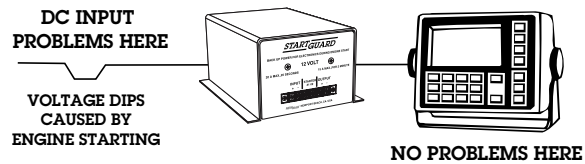
Input Voltage: 13.8 - 14.8 VDC nominal, 15.5 VDC max.

Relay Activation Input Voltage: 7-15 VDC

Output: 20 amps max.

Battery: 12 VDC, sealed rechargeable, 5- 7 year life (typical) 4 amp-hour capacity, Certified by DOT and IATA for shipment by air.

Back-up Capacity (Fully Charged): (See matrix)



Model	Input	Back-Up Capacity		Dimensions		Weight	
		1 Minute	2 Minutes	Inches	Centimeters	Lbs	Kg.
NS-12-20	13.8-14.8 VDC Nominal 15.5 VDC Max	20 amps	18 amps	8.25 x 4.9 x 3.5	20.1 x 12.5 x 8.9	5.5	2.5

NAV-PAC™

Mobile communication electronics such as programmable two-way radio and data transceivers, vehicle location systems and other microprocessor-controlled devices require clean and steady DC input power. Their sensitive circuitry is highly vulnerable to voltage drop from engine start, noise and line spikes from alternators and motors, and conducted noise from various other electronic devices. NAV-PAC prevents all of these problems.

- Prevents voltage "drop-out" during engine start
- Absorbs line "spikes"
- Filters out electrical interference
- Provides supplemental voltage/battery back-up for up to 15 min.
- Remote monitor panel provided

NAV-PAC has been successfully employed for years by thousands of Fire Trucks and other Emergency Service vehicles nationwide



Model: NP-12

U.S. PATENT #: 5172292

Output: 15 amps Max. @ 12 Volt

Back-Up Power:

8 Amps for fifteen (15) minutes

12 Amps for eight (8) minutes

18 Amps for two (2) minutes

Battery: Sealed Rechargeable 4.0 Amp-Hour, 5-7 years typical life, can be replaced. Low-voltage disconnect circuit protects battery from total discharge. Certified by DOT and IATA for shipment by air.

Noise Filtering: Audio through 200 MHZ

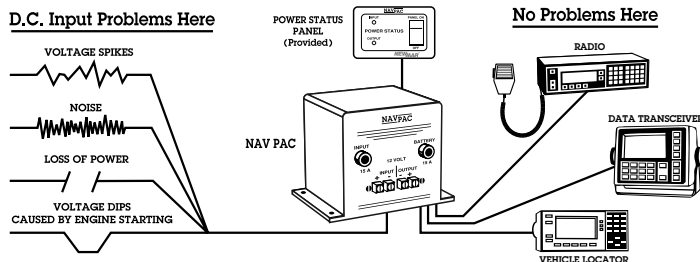
Voltage Spike Protection: Transient energy capability; 100 Joules, 4,000 amps Max (8 x 20 micro seconds)

Size (H x W x D): 5.25" x 6.2" x 7.4", 13.3 X 15.7 X 18.8 cm

Weight: 5.9 lbs., 2.7 Kg.,

Panel Dimensions: 3.5" W x 2" H (8.9 x 5.1 cm)

Provides Continuous Voltage Protection



Powering the Network