

DC UPS

Electronics require a clean and reliable source of DC power for proper operation, they are highly vulnerable to shut down / reboot / data corruption caused by power drop out during engine start and low voltage from over worked batteries. RF Interference generated by alternators and motors also impedes proper operation.

A DC UPS is the remedy to these issues

Below are several choices of DC UPS solutions, depending on the type, duration, severity of power issue encountered, and level of protection desired.

Protection During Engine Start

StartGuard

This unit has an internal battery that supplies supplemental power to electronics during the engine cranking cycle when there is an abrupt voltage drop caused by the high amperage draw of the starter motor. A sense wire connected to the start switch brings the battery online whenever the engine is cranked. This prevents reboot, memory dump, and loss of data in GPS, sounders, and radios.



Model	Input	Output	Size (H x W x D)	Weight	Back-Up
NS-12-20	12V	12V, 20A	8.25" x 4.9" x 3.5"	5.5 Lbs.	20 Amps for 1 min.

Continuous Protection

The Nav-Pac and MDP contain an internal battery that supports electronics when primary input power falters or altogether fails.

Nav-Pac®

- Internal 5AH battery
- Recharges directly from primary voltage source
- Filters electronic interference
- Absorbs line voltage spikes
- Available in 12 volt, 20 amp and 24 volt, 15 amp models



Mobile Data Power

- Internal 7AH battery
- Internal 3 stage charger maintains battery in peak condition
- Filters electronic interference absorbs line voltage spikes
- Low voltage output signal interfaces with Motorola work stations and video recorders initiating orderly shutdown.
- Programmable timer disconnects load from battery at specified time after ignition shut off
- 25 amp load rating



Model	Input	Output	Size (H x W x D)	Weight
NP-12	12V	12V, 20A	5.25" x 6.2" x 7.5"	6 Lbs.
NP-24	24V	24V, 15A	6" x 6.75" x 7.5"	8 Lbs.

Model	Input	Output	Size (H x W x D)	Weight
MDP-25.0	12V	12V, 25A	5.75" x 6" x 8.5"	10

Battery Back-Up	
12V	24V
8A for 15 min.	8A for 15 min.
12A for 8 min.	12A for 8 min.
18A for 2 min.	15A for 2 min.
20A for 1 min.	-----

Battery BackUp
25 amps for 8 min.
10 amps for 20 min.
5 amps for 60 min.

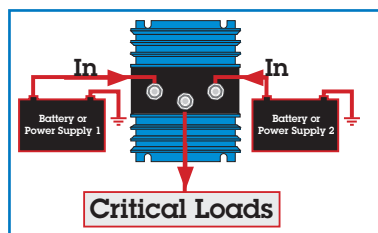
Redundant Power Source Integration

Automatic Power Selector (APS)

The APS enables integration of a redundant power source to critical electronic loads.

It automatically selects the higher voltage of two independent DC power sources and routes that source to the load. Should one source falter or fail, the other will automatically supply the load with no transfer delay, thus operation continues uninterrupted.

Typical Installation



Model	Max Loads	Size	Weight
APS-70	70 Amps	3.25" x 4.5" x 3.1"	2 Lbs.
APS-160	160 Amps	9.0" x 4.5" x 3.1"	5 Lbs.



DC Power Onboard