



Infinitybox™ inLINE Load Center



Product Description:

While a majority of the switched loads in vehicles are powered by 12-volts, there are many that need 120-VAC power. The Infinitybox inLINE Load Center gives powerful control of these loads in any vehicle. Using the same multiplexing technology as the rest of the Infinitybox system, builders and upfitters can get simple control of their 120-VAC loads. This control can be as simple as remotely switching loads on the Infinitybox CAN network or actively shedding loads based on total current draw.

The Infinitybox inLINE Load Center acts like a POWERCELL for 120-VAC loads. It connects to the Infinitybox CAN network and takes commands from the MASTERCELL. Any input connected to the MASTERCELL can be used to turn these loads on or off. This includes wired switches, any of the Infinitybox radio interfaces, inTOUCH NET or any J1939 attached peripheral. Examples of switched loads can include wall outlets, kitchen appliances, audio & video equipment, heating & air-conditioning systems and exterior lighting. You get the benefit of dramatically reducing the wiring in the vehicle by multiplexing the switch control for these loads.

More importantly, the Infinitybox inLINE Load Center offers the builder a powerful energy management system for their vehicle. The Infinitybox Power team integrated current monitoring and the intelligence to manage the total current draw of your 120- VAC system right from the inLINE Load Center.

The system is continuously monitoring the total current consumption of the 120-VAC loads in the vehicle. If this draw exceeds a pre-set threshold, the system actively starts shedding lower priority loads, keeping the most critical functions powered. Shed loads cannot be started again until the system detects that there is enough available current under the maximum limit. The maximum current draw that the system will allow can be actively set through Infinitybox depending on the source of the A/C power, whether it is sourced from a generator, inverter or shore power.

Product Features:

- Six 120-VAC outputs, each protected by a circuit breaker
- Each output capable of carrying 20-amps A/C
- Connects to Infinitybox CAN Network for control of individual outputs from MASTERCELL inputs, radio interfaces, touch screens or other J1939 peripherals
- Built in current monitoring with active shedding of loads based on total current draw
- Maximum current draw based on power source (inverter power, internal generator or shore power)
- System monitoring available through Infinitybox inSIGHT LCD Screen on MASTERCELL
- NEC approved enclosure and components

Applications:

- Recreational Vehicles
- Shuttle Busses
- Limousines
- Telecommunication Trucks
- First-Responder Vehicles
- Emergency Equipment
- Command Vehicles