

VANN-GuardPower Management System

One Product for Equalization/Monitoring/CAN-Bus Communication/Protection Eliminates Need for Additional Add-On Modules and Gateways

The Vanner VANN-Guard power management system permits the operation of 12-volt loads from 24-volt electrical systems. With leading edge equalization technology and ergonomic design, the ever vigilant VANN-Guard will ensure optimized DC performance whatever the application. Combined with advanced system monitoring technology (through J-1939 CanBUS or Vanner's integrated battery monitor) the power management system is ideal for transit bus, private coach, tour bus and charter bus applications. Uses also include heavy trucks, off-highway equipment and even alternative energy solutions.



Key Features

- Battery Equalizer with 24 Vdc to 12 Vdc Converter (Extends battery life / Safe 12V connection)
- System Monitoring Capability (J1939 CanBUS / MUX interface capability)
- 60, 80, 100 Amp Models (12 Vdc output)
- Battery Cab Strain Relief System (Assuring safe and secure DC connections)
- Cast-Aluminum Housing (Waterproof mounts anywhere)
- Vibration and Shock Resistant Design (Built using proven anti-vibration process)
- 24/7 High Transient Surge and Load Dump Protection (Protects entire electrical system)
- Internal Fused Protected (Self-Protecting)
- Advanced Battery Cable Post Design (Eliminates post-to-post arcing due to wrench contact)
- Remote Sensing (Able to be located anywhere on the vehicle/ More accurate equalization)
- **Lightweight Design Only 6.5lbs.** (+5lb. weight savings over other units)
- Factory Repairable (Future factory refurbish program to lower cost of replacement units)

VANN-Guard – Equalizers

| Model | Input Voltage | Maz Input Current (24Vdc) | Output Current | Dimensions | Weight |
|----------------|------------------|------------------------------|-------------------|--------------------------|----------|
| 70-60 | 18-32 Vdc | 32 Amps | 0-60 Amps | 10.6" H x 8.5" W x 3.6"D | 6.5 lbs. |
| <i>7</i> 0-80 | | 43 Amps | 0-80 Amps | | |
| <i>70</i> -100 | | 53 Amps | 0-100 Amps | | |

VANN-Guard – Monitored Equalizers (Internal EM-70D Monitor)

| Model | Input Voltage | Maz Input Current (24Vdc) | Output Current | Dimensions | Weight |
|---------|------------------|------------------------------|-------------------|--------------------------|----------|
| 70-60M | 18-32 Vdc | 32 Amps | 0-60 Amps | 10.6" H x 8.5" W x 3.6"D | 6.5 lbs. |
| 70-80M | | 43 Amps | 0-80 Amps | | |
| 70-100M | | 53 Amps | 0-100 Amps | | |

VANN-Guard – CAN-Bus Management System (SAE J-1939)

| Model | Input Voltage | Maz Input Current (24Vdc) | Output Current | Dimensions | Weight |
|-----------|------------------|------------------------------|-------------------|--------------------------|----------|
| 70-60CAN | 18-32 Vdc | 32 Amps | 0-60 Amps | 10.6" H x 8.5" W x 3.6"D | 6.5 lbs. |
| 70-80CAN | | 43 Amps | 0-80 Amps | | |
| 70-100CAN | | 53 Amps | 0-100 Amps | | |