

The background of the entire page is a stylized world map. The landmasses are shown in dark blue, while the oceans are a lighter blue. A prominent horizontal band of red with a diagonal hatching pattern runs across the middle of the map, behind the title.

Vanner Product Catalog

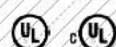
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Mobile and Industrial Products

Industrial TruSine™ Wave Inverter Chargers

Liberty



Industrial grade PWM / true sine wave static inverters and inverter/chargers for heavy-duty applications. Excellent power source for operating motors, timing devices, and sophisticated electronics.



Inverter

Model	Continuous Watts	3 Second Surge Amps	Charger Amps	DC Input Voltage	Weight
IT12-1600	1600	23.8	—	11.0-16.6	46 lb.
IT12-1800	1800	24.7	—	11.0-16.6	46 lb.
IT12-2000	2000	25.6	—	11.0-16.6	48 lb.
IT12-2200S	2200	41.1	—	11.0-16.6	57 lb.
IT12-2400	2200	41.6	—	11.0-16.6	57 lb.
IT12-2600	2600	42.1	—	11.0-16.6	70 lb.
IT12-3200	3200	43.7	—	11.0-16.6	75 lb.
IT12-3600PL	3600 (for 30 min)	43.7	—	11.0-16.6	76 lb.
IT24-3500	3500	83.0	—	22.0-33.2	75 lb.

AC Output Voltage 120 flt 5%

Output waveform: True sine wave featuring TruSine™ technology

Mounting: Shelf or wall mounted

Dimensions: 8.0"H x 13.75"W x 15.75"D



Inverter/Charger

Model	Continuous Watts	3 Second Surge Amps	Charger Amps	DC Input Voltage	Weight
ITC12-2100	2100	53.3	80.0	22.0-33.2	59 lb.
ITC12-3200	3200	53.3	80.0	22.0-33.2	59 lb.
ITC24-3600	3600	53.3	60.0	22.0-33.2	59 lb.

AC Output Voltage 120 flt 5%

Output waveform: True sine wave featuring TruSine™ technology

Mounting: May be mounted in any orientation with reversible mounting brackets

Dimensions: 8.00"H x 19.25"W x 14.00"D

Industrial TruSine™ Wave Inverter Chargers

Sentinel



Industrial grade PWM / true sine-wave static inverters and inverter/chargers.
Designed for back-up power applications to provide either 120V or 240V clean sine-wave AC output as required.



Model	Continuous Watts	3 Second Surge Amps	AC Output Voltage	Charger Amps	DC Input Voltage	Weight
TSC24-4500D	4500	83.3/4165	120V/240V	100.0	21.0-34.0	83 lb.
TSC24-4500	4500	83.3.7	120V	100.0	21.0-34.0	83 lb.

AC output/input: Hardwired | Optional remote operator interface panel - TSR-2
Output waveform: True sine wave featuring TruSine™ technology

Mounting: Shelf or wall mounted
Dimensions: 8.44" H x 19.03" W x 17.49" D

Commercial Sine Wave Inverters

TruWave VLT Series



Commercial grade pure sine wave static inverters for medium to light duty applications.
16 V DC input range for compatibility with higher voltage alternators on newer vehicles.



Model	Continuous Watts	Surge Power Amps	DC Input Voltage	Dimensions	Weight
VLT12-300	300	3.3	11.0-16.0	2.8"H x 6.1"W x 9.5"D	7.7 lb.
VLT12-600	600	6.6	11.0-16.0	3.0"H x 7.3"W x 11.0"D	6.6 lb.
VLT12-1000	1000	16.0	11.0-16.0	4.1"H x 10.8"W x 15.4"D	15.1 lb.
VLT12-1500	1500	16.7	11.0-16.0	4.1"H x 10.8"W x 15.4"D	15.4 lb.
VLT12-2000	2000	33.3	11.0-16.0	6.5"H x 8.2"W x 16.6"D	22 lb.
VLT12-3000	3000	50.0	11.0-16.0	6.5"H x 8.2"W x 17.8"D	24 lb.
VLT24-600	600	6.6	21.0-32.0	3.0"H x 7.3"W x 11.0"D	6.6 lb.
VLT24-1000	1000	16.0	21.0-32.0	4.1"H x 10.8"W x 15.4"D	15.1 lb.
VLT24-1500	1500	16.7	21.0-32.0	4.1"H x 10.8"W x 15.4"D	15.4 lb.
VLT24-2000	2000	33.3	21.0-32.0	6.5"H x 8.2"W x 16.6"D	22 lb.
VLT24-3000	3000	50.0	21.0-32.0	6.5"H x 8.2"W x 16.6"D	24 lb.

AC Output Voltage 120 flt 5%
Output waveform: True sine-wave

Mounting: May be mounted in any orientation

Industrial Quasi Sine Wave Inverters and Inverter Chargers

Patriot



Industrial grade modified sine/quasi-sine wave static inverters and inverter/chargers for heavy-duty applications. Specifically designed for pump, compressor, and inductive load starting, when high surge power is required.



Model	Continuous Watts	3 Second Surge Amps	Charger Amps	DC Input Voltage	Weight
IQ12-2600	2600	65.0	N/A	0.5-16.0	74 lb.
IQ12-3600	3600	80.0	N/A	10.5-16.0	84 lb.
IQC12-2600	2600	65.0	120.0	10.5-16.0	79 lb.
IQC12-3600	3600	80.0	120.0	10.5-16.0	88 lb.
IQC24-3600	3600	80.0	60.0	21.0-32.0	88 lb.

D08514 Remote Panel | IQ-SWR (Single wire remote)
True RMS 120V ffl 3% Output

Mounting: Shelf or wall mounted
Dimensions: 8.11" x 17.5" W x 14.0" D

Quasi Sine Wave Inverters and Inverter/Chargers

Bravo



Industrial grade modified sine/quasi-sine wave static inverters and inverter/chargers for heavy-duty applications. Small footprint and low profile allows for installation in confined spaces.



Inverter

Model	Continuous Watts	3 Second Surge Amps	Charger Amps	DC Input Voltage	Weight
BR12-1800SH	1800	30.0	-	12.0	38 lb.
BR12-1800SG	1800	30.0	-	12.0	38 lb.
BRC12-1800SH	1800	30.0	40.0/80.0	12.0	38 lb.

D05039 Remote Panel

True RMS 120V ffl 5% Output

Dimensions: 6.1" H x 15.3" W x 12.3" D



Inverter/Charger

Model	Continuous Watts	3 Second Surge Amps	Charger Amps	DC Input Voltage	Weight
QBC10-12/120-60H	1050	17.5	55.0	12.0	22 lb.
QBC10-12/120-60G	1050	17.5	55.0	12.0	22 lb.
QBC10-24/120-60H	1050	17.5	55.0	24.0	22 lb.
QBC10-24/120-60G	1050	17.5	55.0	24.0	22 lb.
D05039 Remote Panel					
True RMS 120V fl 5% Output			Dimensions: 5.94"H x 11.56"W x 11.04"D		

Industrial Quasi Sine Wave Inverter Charger

Sleeper Cab Products

Industrial grade inverter /charger for heavy-duty truck applications. Phillips & Temro™ connectors for installation into existing Cab Power™ Systems.



Model	Continuous Watts	Extended Surge Amps	Charger Amps	DC Input Voltage	Weight
SRC12-1200	1200	21.6	55.0	12.0	22 lb.
SR10 Remote					
True RMS 120V fl 5% Output			Dimensions: 5.94"H x 11.56"W x 11.04"D		

Quasi Sine Wave Commercial Inverters and Battery Chargers

PowerCraft An economical solution for AC power needs.



Model Inverters	Continuous Watts	Surge Power Amps	DC Input Voltage	Dimensions	Weight
PCP12-122C5	300	5.0	10.0-15.0	3.2"H x 3.7"W x 8.1"L	3.5 lb.
PCS12-125C0	500	8.0	10.0-15.0	3.2"H x 8.1"W x 10.3"L	4.1 lb.
PCS12-121K0	1000	16.0	10.0-15.0	3.5"H x 9.4"W x 14.6"L	9.3 lb.
PCS12-121K5	1500	25.0	10.0-15.0	3.5"H x 9.4"W x 18.9"L	12.1 lb.
PCS12-122K5	2500	40.0	10.0-15.0	3.5"H x 9.4"W x 28.1"L	18.1 lb.

Model Chargers	DC Output Volts	DC Output Amps	AC Input Voltage	Dimensions	Weight
PCC12-1212	12.0	12.0	120.0	3.2"H x 8.1"W x 9.1"D	4.6 lb.
PCC12-1225	25.0	12.0	120.0	3.2"H x 8.1"W x 11.4"D	6.0 lb.
PCC12-1250	50.0	12.0	120.0	3.5"H x 9.4"W x 14.6"D	16.9 lb.

AC Output 120V

Battery chargers are Special Order items – allow 10-12 weeks lead time.

Additional AC and DC voltages are available by special order.

Please call Vanner Customer Service for details.

DC Cable and Fuse Sizing Chart

Distance	1000W	1400W	1600W	1800W	1800W	2000W	2200W	2400W	2600W	2800W	3000W	3200W	3600W	4500W
8 ft.	2 AWG	1/0 AWG	1/0 AWG	1/0 AWG	1/0 AWG	1/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG
9 ft.	2 AWG	1/0 AWG	1/0 AWG	1/0 AWG	1/0 AWG	1/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG
10 ft.	2 AWG	1/0 AWG	1/0 AWG	1/0 AWG	1/0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG
11 ft.	2 AWG	1/0 AWG	1/0 AWG	2/0 AWG	2/0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	4/0 AWG
12 ft.	2 AWG	1/0 AWG	2/0 AWG	2/0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	250 MCM*	4/0 AWG
13 ft.	1/0 AWG	2/0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	250 MCM*	—	4/0 AWG
14 ft.	1/0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	250 MCM*	—	—	4/0 AWG
15 ft.	1/0 AWG	2/0 AWG	3/0 AWG	3/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	250 MCM*	—	—	—	4/0 AWG
16 ft.	1/0 AWG	2/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	250 MCM*	—	—	—	—	4/0 AWG
17 ft.	1/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	—	—	—	—	—	4/0 AWG
18 ft.	1/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	—	—	—	—	—	—	4/0 AWG
18 ft.	1/0 AWG	3/0 AWG	4/0 AWG	4/0 AWG	4/0 AWG	250 MCM*	250 MCM*	—	—	—	—	—	—	250 MCM*
20 ft.	1/0 AWG	3/0 AWG	4/0 AWG	250 MCM*	250 MCM	250 MCM*	250 MCM*	—	—	—	—	—	—	—
Fuse (Bussman)	ANN-125	ANN-300	ANN-300	ANN-300	ANN-200	ANN-300	ANN-400	ANN-400	ANN-400	ANN-500	ANN-500	ANN-500	ANN-500	ANN-500
Fuse Holder (Bussman)	4164	4164	4164	4164	4164	4164	4164	4164	4164	4164	4164	4164	4164	4164
Vanner Part No. (fuse)	03640	04521	04521	04521	04522	04521	04523	04523	04523	03646	03646	03646	03646	03646
Vanner Part No. (holder)	03637	03637	03637	03637	03637	03637	03637	03637	03637	03637	03637	03637	03637	03637

* Connector is rated for up to 250 MCM but fitting the wire in the connector is difficult.

Estimating Power Requirements

Inverter Wattage Rating Chart

Formulas and Examples for 12 & 24 Volt DC Systems

This "Rule of Thumb" is intended as a general guide for estimating the DC amps required to operate a DC to AC inverter. Since the calculations yield approximate values, an appropriate safety factor should be considered when designing and specifying system components, such as wire size and length.

12 Volt DC Systems Formula: 12 volt inverters require approximately one (1) amp of DC input for each 10 watts of AC output.

Example: How many DC amps will a Vanner 12 volt inverter require to operate three 500 watt quartz lights, or a 1500 watt electric heater?

Answer: 1) Total watts = 1500 **2)** 1500 watts/10 (from formula) = 150 amps

24 Volt DC Systems Formula: 24 volt inverters require approximately one (1) amp of DC input for each 20 watts of AC output.

Example: How many DC amps will a Vanner 24 volt inverter require to operate three 500 watt quartz lights, or a 1500 watt electric heater?

Answer: 1) Total watts = 1500 **2)** 1500 watts/20 (from formula) = 75 amps

This is the DC current the inverter will use to operate the 1500 watt load. Note - if this 75 amps is drawn from the battery for one hour, 75 amp hours (AH) of battery power will be used. To support 75 amp hours of battery power, 150 amp hours of battery capacity is required.

Average Wattage Ratings of products operated from Vanner Inverters

Typical Product	Min	Max	Typical Product	Min	Max
Air Conditioning, 9000 BTU	1100W	2200W	Plastic Pipe Electro Fusion	1400W	3900W
Air Conditioning, 13,500 BTU	1800W	3500W	Radio	—	25W
Coffee Maker	500W	1500W	Refrigerator	300W	1625W
Drill	250W	1500W	Space Heater	—	1500W
Electric Blanket	100W	250W	Stereo System	50W	400W
Engine Heater	—	750W	TV - Black & White	50W	100W
Fan	—	200W	TV - Color	75W	200W
Furnace Blower	—	400W	Toaster	1000W	1400W
Flood Lights	300W	2000W	Trash Compactor	400W	800W
Freezer	450W	800W	VCR / DVD	35W	75W
Grinder	1000W	1500W	Vacuum Cleaner - Home	400W	900W
Hot Plate	500W	1500W	Vacuum Cleaner - Shop	840W	1380W
Impact Wrench	—	900W	Water Heater	—	4500W
Microwave Oven	800W	1600W	Water Pump - Small	700W	1500W
Pipe Threader	—	1500W	Water Pump - Large	1000W	2000W

Induction Motor Power Requirements

	Starting Watts	Running Watts
1/4 HP	750-1500	700
1/2 HP	1500-3000	1175
1 HP	3000-6000	1950

Dynamic Power Systems

Vanner Dynamic Inverters provide continuous power without the addition of auxiliary batteries. Vanner Dynamic Inverters are an exceptional substitute for portable generators.

Sine Wave Dynamic Inverter

MPG

The MPG is the first chassis mounted power system designed for OEM Production Line and Aftermarket/Retrofit installation. MPG Power Harness and 42V Leece-Neville Alternator required. Provides continuous *mobile* and stationary power during engine operation and without the need for auxiliary batteries.



Due to the complex installation of the MPG, it is available only through the following Vanner Distributors.

United States
Fleet Electric
Worcester, MA

Canada
Polytek Equipment
Laval, QC
Mobile Power Solutions
Gornley, ON

Model	Continuous Watts	Total Power Watts	Max DC Charging Amps	Weight
MPG-30	3000	4200	100.0	45 lb.

True RMS 120V ffl 4% Output. **Dimensions:** 10" W x 10" H x 15" D

Sine Wave Dynamic Inverter

Intrepid

Industrial grade sine-wave inverter. Power Harness and Leece-Neville Alternator required. Provides continuous stationary power during engine operation and without the need for auxiliary batteries.



Model	Maximum Output Watts	Maximum AC Output Amps	Maximum DC Charging Amps	Weight
TA60-100.4	6000	50.0	100.0	80 lb.
D08575 20' Harness				
D08574 30' Harness				

AC Output 120V **Dimensions:** 19.625" W x 10.0" H x 13.5" D



Vanner ...

**More than 30 years of
Experience as a Leader
in Power Conversion and
Power Transformation for
the Transportation Industry.**

Emergency Medical Service Products

Vanner EMS products meet or exceed all GSA KKK-1822 and AMD specifications.

LifeStar



Robust and reliable quasi-sine wave inverter/charger. Contains internal DC power source to operate DC loads and check-out lights in ambulances. Eliminates the need for additional battery chargers or power supplies.



Model	Continuous Watts	3 Second Surge Amps	Charger Amps	DC Power Supply Amp	DC Input Voltage	Weight
20-1050CUL-DC	1050	17.5	55.0/15.0	20.0	10.5-16.0	22 lb.
20-1000TUL-DC	1050	17.5	—	20.0	10.5-16.0	22 lb.
LSIR Inverter Display Panel						
LSCR Charger Display Panel						

AC Output voltage 120 \pm 5%

Model	Continuous Watts	3 Second Surge Amps	Charger Amps	DC Input Voltage	Weight
20-1000TUL.2	1050	17.5	—	10.5-16.0	22 lb.
20-1050CUL	1050	17.5	55.0/15.0	10.5-16.0	22 lb.
D06638 Inverter Display Panel					
D06639 Charger Display Panel					
IFM1 Interface Module					

AC Output voltage 120 \pm 5%

Dimensions: 5.94" H x 11.56" W x 11.04" D

Vanner ... A Promise of Safe Solutions Designed

ChargeMaster

10



Industrial grade battery chargers maintain and condition batteries while charging and provide a reliable start.



Model	AC Input	DC Output Volts	DC Output Amps	Dimensions	Weight
30-10	120.0	13.25	10.0	6"H x 6.25"W x 8.5"D	11 lb.
30-10GFI	120.0	13.25	10.0	6"H x 6.25"W x 8.5"D	11 lb.

Electronic Flashers

Vanner electronic flashers provide the attention-getting patterns in emergency and service vehicle lighting systems. 5860GCPE is the highest powered electronic flasher available today.



Model	Flash Pattern	Output Amps Per Terminal	Output Terminals	Weight
3250GCPE	Alternating	50.0	2	1 lb.
3840GCPE	Complies with AMD and GSA KKK-A-1822 B/C	30.0	3	1 lb.
3860GCPE	Complies with AMD and GSA KKK-A-1822 C/D/E	40.0/24.0/30.0	3	1 lb.
5860GCPE	Complies with AMD and GSA KKK-A-1822 C/D/E	60.0/40.0/40.0	3	1 lb.

Dimensions: All units. 2.63"H x 4.75"W x 3.50"D

**Rugged, Reliable and
Built in the U.S.A.**

Electrical System Components

Power Management Engine Control System

IdleWatch™

Combine the IdleWatch™ with any Vanner static inverter to create a **NO IDLE** AC power system. Reduces fuel consumption and exhaust emissions by providing AC power with the engine off. Turn your conventional vehicle into a "hybrid" at a fraction of the cost of a hybrid.



Model	Input Amps	Output Amps	Dimensions	Weight
PMEC 12/24	100.0A	[2] 50.0A	3.2"H x 8.5"W x 10.5"D	7 lb.

Battery Isolators

Isolators allow dual battery systems to be charged from a battery charging source while preventing one battery from discharging the other. Schottky diode isolators reduce voltage drop inherent in other types of isolators.



Model	Description	Max Amps	Dimensions	Weight
50-140	Silicon 2-leg	180 Amp Alt/165 Amp per leg	2.5"H x 4.5"W x 8"D	1 lb.
51-140	Schottky 2-leg isolator	250 Amp Alt/200 Amp per leg	2.5"H x 4.5"W x 8"D	1 lb.
52-75	Schottky 1-leg Medical	75 (50% Duty Cycle)	2.5"H x 4.5"W x 3"D	1 lb.

Automatic Throttle Controls

Designed to automatically increase engine RPM to provide higher alternator output. For use with engines with mechanical throttle linkage only.



Model	Description
73-46	Heavy Duty Automatic Throttle system consists of the solenoid/cable assembly and the control module assembly.
73-48	Accessory Kit consists of ON/OFF toggle switch, blocking diode, 8-Amp slo-blo fuse and holder.
70-VG	Volt Guard low voltage actuator provides a continuity signal (contact closure) when battery voltage falls below 12.5 volts.



Vanner ...

**Developing new Hybrid
Products for the Truck and
Bus Markets ... and Specialized
Military Solutions.**

Transit and Coach Bus Products

DC to DC Converters

Vanner DC to DC converters provide regulated DC power when precise voltages are required. A variety of high-current step-up (12V to 24V) or step-down (24V to 12V) products are available. If the products below do not satisfy your specification (12V, 36V, etc.) Please contact your Vanner representative to discuss your requirements.



Model	DC Input Voltage	DC Output Voltage	Output Amps	Dimensions	Weight
90-20A	22.0-35.0	12.8	20.0	3.5"H x 8.5"W x 9.38"D	5 lb.
VC-30	18.0-32.0	13.5	30.0	2.47"H x 8.5"W x 6.5"D	4 lb.
90-50	22.0-35.0	12.8	50.0	3.5"H x 8.5"W x 13.38"D	7 lb.
SP00165	18.0-32.0	Input/2	80.0	2.47"H x 8.5"W x 10.5"D	7 lb.
91-10A	11.0-16.0	24.2	10.0	3.5"H x 8.5"W x 9.38"D	5 lb.
SP00100	12.0-15.0	27.7	12.5.0	3.5"H x 8.5"W x 9.38"D	5 lb.
91-30	11.0-43.0	24.0	30.0	2.47"H x 8.5"W x 10.5"D	6 lb.
91-45	11.4-20.0	27.5	45.0	2.47"H x 8.5"W x 10.5"D	6 lb.
SP00158*	11.4-20.0	27.5	45.0	5.26"H x 8.5"W x 10.5"D	14 lb.

*Operates to 90C

DC Electrical System Monitors

These monitors sense critical voltages in 12 or 24/12 volt DC vehicle electrical systems.



Model	Description	Dimensions	Weight
EM70D	Monitors 24V systems with 12 Volt loads. Provides fault signals for battery high, battery low, and batteries imbalance.	.75"H x 4.5"W x 6.625"D	1 lb.
EM71	Monitors 12 volt systems. Provides signals for high and low battery conditions.	.75"H x 4.5"W x 6.625"D	1 lb.

Coach Charge Battery Chargers

This battery charger is a high performance three stage 24V battery charging standard for leading bus OEMs.



Model	AC Input Voltage	AC Input Amp	DC Output Voltage	DC Output Amp	Dimensions	Weight
SP00181	120.0	15.0	24.0	41.0	9.85" W x 6.70" H x 15.75" D	35 lb.

StartSentry Ultracapacitors

Assists the 24V cranking batteries during every start and includes a drop-in modular design which includes the contactor, disconnect, and internal controls. The GS model is controlled by a ground signal for dead battery start. The IS model is controlled by an ignition signal.



Model	Stored Energy	Max Output Amps	DC Operating Voltage	Dimensions	Weight
UCS24-80KJ-IS	80KJ	1800.0	7.0-32.0	12.5"H x 7.5"W x 22.0"D	40 lb.
UCS24-80KJ-GS	80KJ	1800.0	7.0-32.0	12.5"H x 7.5"W x 22.0"D	40 lb.

Battery Equalizers - Volt Master



Technologically advanced battery equalizers ensure operation of 12V devices on a 24V vehicle and increase battery life. The All aluminum chassis improves safety and durability.



Model	Input Voltage	Output 12V Current Amps	Dimensions	Weight
60-10B	20.0-35.0	10.0	3.2"H x 8.5"W x 4.25"D	2.3 lb.
60-20A	20.0-35.0	20.0	3.2"H x 8.5"W x 9.4"D	5 lb.
66-60	18.0-32.0	60.0	3.2"H x 8.5"W x 10.5"D	6.0 lb.
66-80	18.0-32.0	80.0	3.2"H x 8.5"W x 10.5"D	6.3 lb.
66-100	18.0-32.0	100.0	3.2"H x 8.5"W x 10.5"D	6.3 lb.

VANN-Guard Battery Equalizers

Rugged cast aluminum housing improves environmental protection.
Positive post separation and DC cable strain relief increase safety and DC connection integrity.
Internal battery monitoring.



Model	Input Voltage	Output 12V Current Amps	Internal EM70 Monitor	Weight
70-60	18.0-32.0	60.0	—	7.0 lb.
70-80	18.0-32.0	80.0	—	7.3 lb.
70-100	18.0-32.0	100.0	—	7.3 lb.
70-60M	18.0-32.0	60.0	Yes	7.3 lb.
70-80M	18.0-32.0	80.0	Yes	7.5 lb.
70-100M	18.0-32.0	100.0	Yes	7.5 lb.

Dimensions: 4.0"H x 8.5"W x 10.6"D

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

This product has all of the benefits of the Vann-Guard Battery Equalizer with more sophisticated prognostic battery monitoring. The MBBM™ Battery Monitor will report battery state of charge and state of health, battery voltage high, battery voltage low, and out of balance. The J-1939 CANBus Communication communicates with MUX and Telemetry Systems.



Model	Input Voltage	Output 12V Current Amps	Internal Monitor	Weight
70-60CAN	18.0-32.0	60.0	EM70D	7.0 lb.
70-80CAN	18.0-32.0	80.0	EM70D	7.3 lb.
70-100CAN	18.0-32.0	100.0	EM70D	7.3 lb.
80-60CAN	18.0-32.0	60.0	EM70D	7.3 lb.
80-80-CAN	18.0-32.0	80.0	EM70D	7.5 lb.
80-100CAN	18.0-32.0	100.0	MBBM	7.5 lb.

Vanner's patented Model Based Battery Monitor (MBBM™) is used for accurate battery state of charge Status and electrical system diagnostics and prognostics. It can be used on both 12V and 24V electrical systems on any make and model vehicle.

Dimensions: 4.0"H x 8.5"W x 10.6"D

VANN-BUS Sensors

The M1200 requires use of the vehicle system sensor components listed below.
Sensors provide real-time and accurate electrical system information to Vann-Bus and P MEC monitors.



Model	Description
VSS-C600	600A Current Sensor
VSS-C80/600	80A/600A Dual Vann-Bus Current Sensor
VSS-C80	Current Sensor-80 AMP
VSS-VT	Voltage /Temperature Sensor

VANN-BUS Dual Low Voltage Disconnect

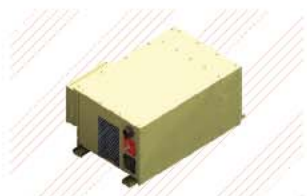
The dual low voltage disconnect is composed of two solid state switches, one for 30 amps, and one for 10 Amps.



Model	DC Input Voltage	DC Output Amp	Dimensions	Weight
DLVD24-3010	12.0-32.0	10.0/30.0	2.63"H x 4.75"W x 3.50"D	1.6 lb.

Hybrid High Voltage DC-DC Converter

Power for 24V auxiliary loads on hybrid buses.
Replaces inefficient conventional alternators, regulators, belts, and pulleys.
Ecological - Reduces Fuel Consumption and Exhaust Emissions.
Economical - Eliminates Routine Alternator and Belt Maintenance.



Model	DC Input Voltage	DC Output Voltage	Output Amperage	Dimensions	Weight
H600-28-7CAN	500-780	20.0-30.0	250A @ idle	9.9"H x 17.1"W x 24.5"D	73 lb.



Vanner ...

The Power Conversion Technology Leader

**Delivering state-of-the-art power
technologies for electrical systems:**

Static DC-AC Inverters and Inverter-Chargers

Dynamic DC-AC Inverters

Battery Equalizers with J-1939 CAN-Bus Communication

Model Based Battery Monitoring

Electronic Converter-Isolators

IdleWatch™ / Silent Watch™ No-idle Power Management Systems

Low-Voltage Disconnects

Conventional DC-DC Converters - 12V, 24V, 48V

Hybrid DC-DC Converters - 330V, 600V

ISO /TS 16949 : 2002 Registered

Vanner: Rugged, Reliable and Safe Power Conversion Products

Thank you for considering Vanner products for your electrical power conversion needs.

Since 1977 Vanner has taken great pride in providing rugged, reliable, and safe electrical products for a variety of markets, delivering the most dependable electrical system possible for our customers, and their customers.

Vanner Products

The products listed in this Product Catalog are a sampling of the most popular products for our core markets. All of Vanner's product literature and product owner/operation manuals can be found electronically at www.vanner.com.

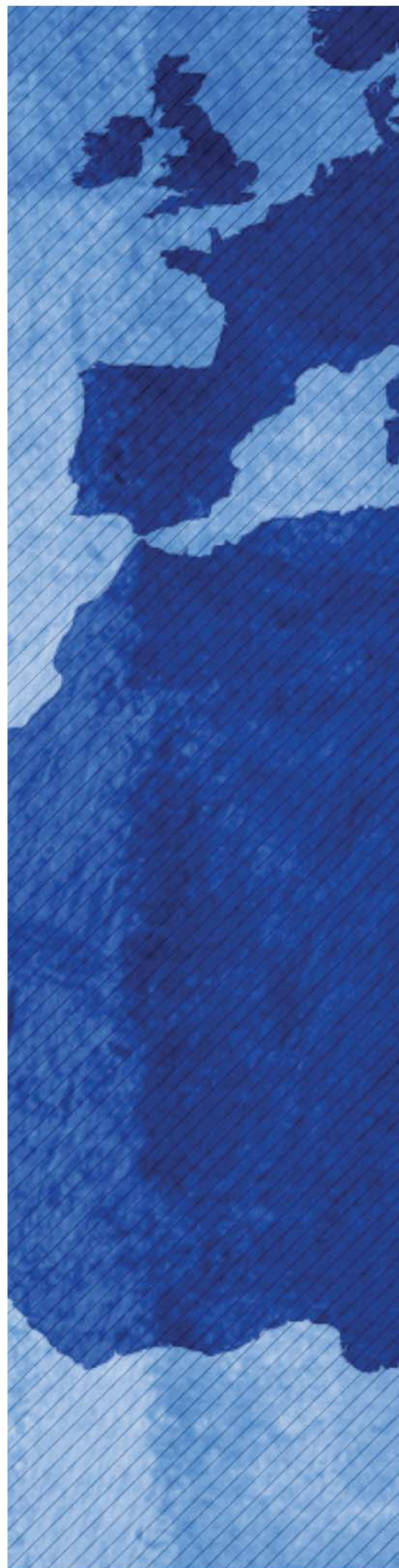
OEMs and Distributors

Whether you purchase Vanner products through one of our Ambulance OEMs, Transit / Coach Bus OEMs, Truck Equipment Manufacturers, their aftermarket divisions, or one of Vanner's highly qualified distributors, rest assured that you are investing in the safest and most reliable technology offered.

Vanner and our network of OEMs and Distributors will assist you with the selection of the correct products for your application, and we will stand behind our products, by providing installation training and guidance, to assure your 100% satisfaction after the sale.

Quality Commitment

Our commitment to quality is evident with our ISO-9001 and TS-16949 quality manufacturing process certifications. The latest and most robust technology, combined with the highest quality standards equals unsurpassed dependability for our customers. This is the Vanner Experience.



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