

# THE ONE-STOP SHOP FOR YOUR FLEET'S POWER AND CHARGING NEEDS

Complete suite of fleet power and charging solutions,  
including energy storage and solar

- Liftgate Charging
- Solar Power
- Lithium-Ion Batteries
- SAFEX
- Trailer Auxiliary Power System
- Inverters & Inverter/Chargers
- Miscellaneous Solutions
- Power Accessories



MCE VEHICLE POWER

**KE** KUSSMAUL  
ELECTRONICS



**PURKEYS**

**xantrex**



**ZERO RPM**

# LIFTGATE CHARGING

Multiple-source Charging

Our liftgate charging systems improve liftgate battery charging by utilizing a DC/DC converter to boost the voltage for optimal charging. The converter also compensates for temperature as well as for voltage drop and provides the best voltage to the remotely located liftgate batteries. The result is well-charged liftgate batteries that will last longer and have ample power for liftgate operation.

## Key Features

- Maintain and protect batteries
- Maximize battery life and reduce downtime
- Provide an extra boost to optimize charge time
- Charge liftgate batteries while drivers travel between stops
- Continue to charge for up to 1 hour after truck engine shuts off or until truck battery goes below 12.4 Volt (excluding Direct-03)
- Give priority to the ABS by turning off within 1/20th of a second if the source voltage drops below 9.5 Volt
- Easy-to-read LED indication
- Patented (patent numbers 8,004,242 and 9,725,000)
- Includes 3-year warranty



### Select™

#### Multiple-source charging liftgate charging system

The Select™ liftgate charging system boosts voltage, helping to overcome voltage drop from the truck to the liftgate batteries. **The Select can draw power from either the tractor or the reefer via multiple paths (stinger cord, reefer, or 7-way aux pin), automatically detecting the best path when necessary.**



### Select™ Noseboxes

#### Multiple-source charging liftgate charging system

In cold temperatures, the DC/DC converter compensates for temperature by providing higher charging voltages. The result is well-charged liftgate batteries that will last longer and have ample power for liftgate operation.



It also includes an interior light controller (harness sold separately) designed to turn the lights on inside a trailer and automatically shut them off either via a timer or if the liftgate batteries drop to a low state of charge.

*All products below have a harness length of 50 ft unless stated otherwise.*

#### SELECT – MULTIPLE-SOURCE LIFTGATE CHARGING

Part #	Description
SELECT-21	Reefer and Dual Pole Connection
SELECT-21-KIT*	Reefer and Dual Pole Connection with Charging Plate Assembly
SELECT-22	Reefer and Single/Dual Pole Combo Connection
SELECT-22-KIT*	Reefer and Single/Dual Pole Combo Connection with Charging Plate Assembly
SELECT-23	Reefer and 7-Way Connection
SELECT-23-KIT*	Reefer and 7-Way Connection with Charging Plate Assembly
SELECT-24	Dual Pole and 7-Way Connection
SELECT-24-KIT*	Dual Pole and 7-Way Connection with Charging Plate Assembly
SELECT-25	Single/Dual Pole Combo and 7-Way Connection
SELECT-25-KIT*	Single/Dual Pole Combo and 7-Way Connection with Charging Plate Assembly
SELECT-31	Dual Pole, Reefer, and 7-Way Connections
SELECT-31-KIT*	Dual Pole, Reefer, and 7-Way Connections with Charging Plate Assembly
SELECT-32	Single/Dual Pole Combo, Reefer, 7-Way
SELECT-32-KIT*	Single/Dual Pole Combo, Reefer, 7-Way with Charging Plate Assembly

#### SELECT NOSEBOX – MULTIPLE-SOURCE LIFTGATE CHARGING

Part #	Description
9102-0005-A-A	Select™ Nosebox with Reefer and Dual Pole Connection
9102-0006-A-A*	Select™ Nosebox with Reefer and Dual Pole Connection with Charging Plate
9102-0007-A-A	Select™ Nosebox with Reefer and Dual/Single Pole Combo Connection
9102-0008-A-A*	Select™ Nosebox with Reefer and Dual/Single Pole Combo Connection with Charging Plate
9102-0009-A-A	Select™ Nosebox with Dual Pole and 7-Way Connection**
9102-0010-A-A*	Select™ Nosebox with Dual Pole and 7-Way Connection**with Charging Plate
9102-0011-A-A	Select™ Nosebox with Dual/Single Pole Combo and 7-Way Connection**
9102-0012-A-A*	Select™ Nosebox with Dual/Single Pole Combo and 7-Way Connection** with Charging Plate
9102-0013-A-A	Select™ Nosebox with Dual Pole, Reefer, and 7-Way Connections**
9102-0014-A-A*	Select™ Nosebox with Dual Pole, Reefer, and 7-Way Connections** with Charging Plate
9102-0015-A-A	Select™ Nosebox with Dual/Single Pole Combo, Reefer, 7-Way Connection*
9102-0016-A-A*	Select™ Nosebox with Dual/Single Pole Combo, Reefer, 7-Way Connection* and Charging Plate

\*Charging plate assembly for the battery box is included.

\*\*Includes a harness to connect to the 7-way, but does not include a 7-way receptacle.

# LIFTGATE CHARGING

Single-source Charging



## Direct™

### Single-source charging liftgate charging system

The Direct single-source liftgate charging control unit increases battery life and allows the liftgate to work more efficiently. **The Direct draws power from either a stinger cord (dual or single pole) or a 7-way aux pin.** The Direct is also available for straight trucks that utilize an extra liftgate battery box.



## Direct™ Noseboxes

### Single-source charging liftgate charging system

In cold temperatures, the DC/DC converter compensates for temperature by providing higher charging voltages. The result is well-charged liftgate batteries that will last longer and have ample power for liftgate operation. It also includes an interior light controller (harness sold separately) designed to turn the lights on inside a trailer and automatically shut them off either via a timer or if the liftgate batteries drop to a low state of charge.

*All products below have a harness length of 50 ft unless stated otherwise.*

#### DIRECT™ – SINGLE-SOURCE LIFTGATE CHARGING

Part #	Description
DIRECT-01	Dual Pole Connection
DIRECT-01-KIT*	Dual Pole Connection with Charging Plate Assembly
DIRECT-02	Single/Dual Pole Combo Connection
DIRECT-02-KIT*	Single/Dual Pole Combo Connection with Charging Plate Assembly
DIRECT-03	7-Way Connection
DIRECT-03-KIT*	7-Way Connection with Charging Plate Assembly
DIRECT-04	Straight Truck with Separate Battery Box
DIRECT-04-KIT*	Straight Truck with Separate Battery Box with Charging Plate Assembly

#### DIRECT™ NOSEBOX – SINGLE-SOURCE LIFTGATE CHARGING

Part #	Description
9102-0001-A-A	Direct™ Nosebox with Dual Pole Connection
9102-0002-A-A*	Direct™ Nosebox with Dual Pole Connection with Charging Plate Assembly
9102-0003-A-A	Direct™ Nosebox with Dual Pole Combo Connection
9102-0004-A-A*	Direct™ Nosebox with Dual Pole Combo Connection with Charging Plate Assembly

\*Charging plate assembly for the battery box is included.

# LIFTGATE CHARGING ACCESSORIES



## Status

### A battery status indicator that shows numeric battery voltage and state of charge, and also has an LED to indicate battery health.

- Uses a screen to show numeric battery voltage and state of charge
- Eliminates battery state of charge uncertainty
- Designed for harsh weather conditions
- Reduces parasitic load on the battery via sleep mode
- Robust and long lasting
- Includes easy-to-read indicators

Part #	Description
STATUS-100	Indicator, Battery Status with Digital Voltmeter

#### ADDITIONAL DIRECT™ and SELECT™ ACCESSORIES

Part #	Description
H-00289	Reefer Harness Add-On
H-00521	Interior Light Harness, 25 ft
H-00522	Interior Light Harness, 50 ft
H-00523	Interior Light Harness, 70 ft

Part #	Description
CA00136	Severe Service Trailer Link 53 ft, 4 AWG
CA00137	Severe Service Trailer Link 48 ft, 4 AWG
CA00138	Severe Service Trailer Link 23 ft, 4 AWG
CA00143	Severe Service Trailer Link 53 ft, 2 AWG

Part #	Description
CA00144	Severe Service Trailer Link 48 ft, 2 AWG
CA00145	Severe Service Trailer Link 23 ft, 2 AWG
H-00495	Severe Service Reefer Link, 4 AWG
H-00498	Severe Service Reefer Link, 2 AWG



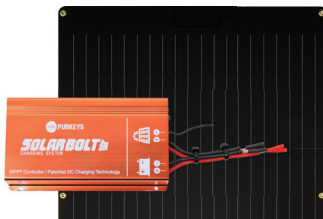
# SOLAR



**SOLAR POWER BY**  
**PURKEYS**  
 A MISSION CRITICAL ELECTRONICS BRAND

Combat parasitic loads and keep your batteries topped off no matter how long your truck sits! Purkeys' solar charging systems work in conjunction with the electrical system of a vehicle or trailer. They counteract parasitic loads and minimize battery-related road service, downtime, and delivery delays.

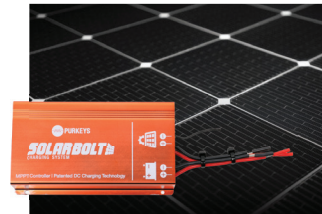
- Extends battery life
- Keeps trucks ready during periods of inactivity
- Utilizes mastic backing
- Flexible panels



**SOLARBOLT**  
 CHARGING SYSTEM

**110-360 watt charging system**

Keep liftgate and auxiliary batteries charged whether the vehicle is on or off.



**SOLARBOLT**  
 PREMIUM CHARGING SYSTEM

**110-500 watt charging system**

Using premium solar panels, keep tractor, liftgate, and auxiliary batteries charged, even when the truck is not running.



**SOLARDART**  
 CHARGING SYSTEM

**50 watt charging system**

Helps avoid jumpstarts by maintaining vehicle batteries at a high state of charge during vehicle inactivity. It is ideal for maintaining reefer batteries.



**SOLARDASH**  
 CHARGING SYSTEM

**20 watt charging system**

Keeps vehicle batteries at a good state of charge when the truck is not in operation. It is portable and easy to transfer between vehicles.

BENEFITS	BOLT™	BOLT™+	DART™	DASH™
Extends battery life	X	X	X	X
Reduces fuel costs over time	X	X	X	X
Configurable up to 360 watts	X			
Configurable up to 500 watts		X		
Uses premium solar panels		X		
Uses 50 W solar panel			X	
Uses 20 W solar panel				X
Utilizes mastic backing	X	X	X	X
Flexible panel	X	X	X	X
Thrives in low-light conditions		X		

Part #	Description
9103-0001-A-A	Solar Bolt Charging System – 100 W
9103-0002-A-A	Solar Bolt Charging System – 200 W
9103-0003-A-A	Solar Bolt Charging System – 300 W
9204-0001-A-A	Solar Bolt+ Tractor Kit – 110 W
9204-0002-A-A	Solar Bolt+ Tractor Kit – 220 W
9204-0005-A-A	Solar Bolt+ Tractor Kit – 240 W
9204-0006-A-A	Solar Bolt+ Tractor Kit – 360 W
9103-0009-A-A	Solar Bolt+ Premium Trailer Kit – 110 W
9103-0010-A-A	Solar Bolt+ Premium Trailer Kit – 240 W
9103-0011-A-A	Solar Bolt+ Premium Trailer Kit – 360 W
9103-0005-A-A	Solar Dart™ – 50 W, power plug, eyelets, battery clips, with mastic
9103-0006-A-A	Solar Dart™ – 50 W, power plug, eyelets, battery clips
9204-0003-A-A	Solar Dash™ – 20 W, power plug, eyelets, battery clips
9204-0004-A-A	Solar Dash™ – 20 W, power plug, eyelets, battery clips, with mastic



# XANTREX LITHIUM ION BATTERIES



## 12 Volt 125 Ah

- Group 31 drop-in replacement
- Parallel stack up to 4 batteries
- Optional heater blanket available



## 12 Volt 240 Ah

- Parallel stack up to 2 batteries



## 12 Volt 310 Ah

- Parallel stack up to 8 units
- Includes internal heater
- Optional SOC gauge



## 12 Volt 410 Ah

- Parallel stack up to 8 units
- Includes internal heater
- Optional SOC gauge

- Internal BMS - reduces footprint
- Cell Balancing - extends lifetime of battery
- LED's to monitor State of Charge
- Remote Panel - view status of battery, turn battery on and off
- Connect to the Xantrex mobile app to view status of battery
- UL certified cells in batteries

## Group 31 Comparison

Features	Lead Acid	Xantrex
<b>Battery Capacity</b>	100 Ah	125 Ah
<b>Usable Capacity</b>	30-50%	98%
<b>Charging Mode</b>	Bulk to 80%	Bulk to 99%
<b>Charging Rate</b>	30% of Maximum Capacity	80% of Maximum Capacity
<b>Wasted Energy</b>	15%	0%
<b>Life Cycles</b>	500-700	6,000 (under ideal conditions)
<b>Voltage at 50% SOC</b>	10.5 VDC	13.2 VDC
<b>Voltage at 25% SOC</b>	Dead	12.4 VDC
<b>Weight</b>	60+ lbs	30 lbs
<b>\$\$\$ / Cycle</b>	~\$0.5	~\$0.4
<b>Features</b>	Zero	Bluetooth, State of Charge

## DC BATTERY CABLES + FUSE KITS



Pre-terminated DC battery cables and fuse block kit for a fast and easy install between your inverter and battery.

### 12 V Inverter Size Range

S: 600-800 W  
M: 900-1300 W  
L: 1400-2300 W  
XL: 2400-3000 W

Part #	Description
883-0105-12	12 V 105 Ah Xantrex Lithium-Ion Battery
883-0125-12	12 V 125 Ah Xantrex Lithium-Ion Battery
883-0240-12	12 V 240 Ah Xantrex Lithium-Ion Battery
884-0310-12	12 V 310 Ah Xantrex Lithium-Ion Battery
884-0410-12	12 V 410 Ah Xantrex Lithium-Ion Battery
881-0180-12	Optional heater blanket for 12 V 125 Ah model
881-0268-01	Battery SOC aggregator & display for 12V 310 Ah and 12V 240 Ah models
809-084G	DC Battery Cables + Fuse S-Kit
809-082G	DC Battery Cables + Fuse M-Kit
809-0820	DC Battery Cables + Fuse L-Kit
809-0840	DC Battery Cables + Fuse XL-Kit

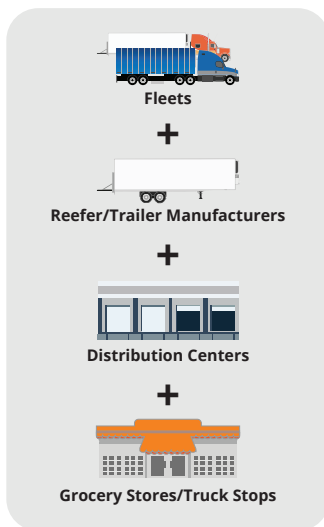


## SAFEX

Tried and eTRU 480 VAC Power for hybrid reefers

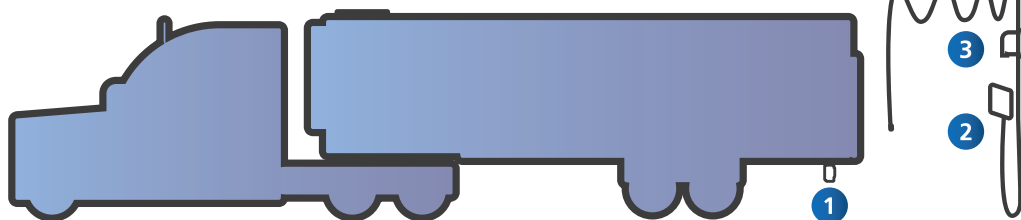
- Provides emissions-free, 480 VAC power for hybrid eTRU systems
- Prevents high-voltage arcing
- Eliminates property damage from drive-offs
- Protects employees with automatic power shut-off
- Meets CARB and other anti-idle regulations
- Easy and intuitive to use—just plug and go!
- 250,000+ installations in critical public safety applications\*
- 25+ years of exemplary track record in North America and Europe\*
- Available in 240 VAC

\*Reflects MCE's Kussmaul Electronics Auto Eject application in the emergency vehicle market



A safe, reliable, and environmentally-friendly system to provide 480 VAC power for eTRUs

## SYSTEM COMPONENTS



### 1 Auto Eject



480 V, 30 A receptacle installed on the trailer. Detects when the cable is connected and ensures the cable is live only when properly connected. Automatically ejects when the driver presses the tractor brake to prevent drive-off damage.

### 2 Auto Safe



Allows power to flow once the cable is properly connected and an operator has pressed the power button. Automatically disconnects power if the cable is not connected properly to prevent accidental electric shock to personnel or equipment.

### 3 Cable Management



The SAFEX system is customizable and allows you to choose the cable management option that works best for your application, keeping the cables off the ground, mitigating potential cable-related risks.



## Trailer Auxiliary Power System (TAPS)™

Provides reliable AC power at the back of a commercial trailer, allowing drivers to charge electric pallet jacks while en route

- Converts DC power to AC power when truck is running
- Allows pallet jack batteries to charge while driver is en route
- Comes in a rugged, stainless-steel enclosure appropriate for both internal and external mounting
- Protects wiring in liquid-tight conduit
- Saves time, money, and manpower
- Includes 3-year warranty
- Can be used for tools, computers, printers, or any item that needs AC power

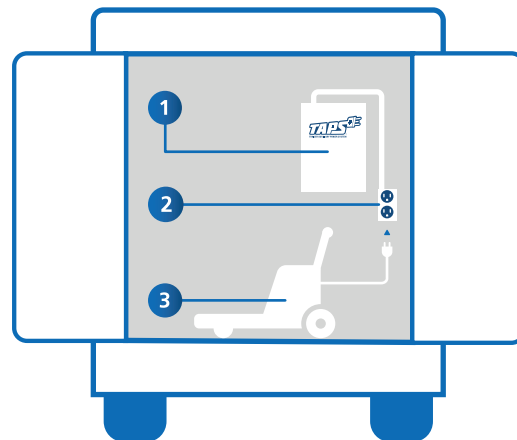


### Improve your fleet's efficiency

TAPS uses power from either the dual pole or auxiliary batteries to provide 110 VAC power so that tools and equipment, such as electric pallet jacks, can charge while drivers are on their routes rather than having to return to the warehouse or unload by hand.

Featuring a pure sine output, TAPS creates an easy solution for power needs in the back of the trailer.

Part #	Description
TAPS-300	Trailer Dual Pole Connection with Dual Pole (AC Power, 1500 W, Pure Sine Wave)
TAPS-301	Straight Truck or Trailer Liftgate Battery Connection (AC Power; 1500 W, Pure Sine Wave)
TAPS-304	Trailer Dual Pole Connection without Dual Pole (AC Power, 1500 W, Pure Sine Wave)



### 1 1500 W Inverter

The TAPS includes a 12 VDC to 110 VAC inverter with control module that helps protect vehicle batteries. Can be mounted inside or outside the trailer.

### 2 110 VAC Outlet

110 VAC outlet is installed at the back of the trailer allowing easy access to charge devices like electric pallet jacks.

### 3 Electric Pallet Jack

Charge electric pallet jack batteries between stops, keep deliveries on time, and save warehouse space.



# FACTORY INSTALL INVERTERS



## FREEDOM HF

**1500/1800 watt modified sine inverter with 3600 watt surge and 40 amp internal charger**

- Handles standard sleeper cab AC appliances and electronics
- 12.1 Volt LVD protects truck batteries
- Internal GFCI AC outlet and OE hardwired with external outlet
- Ignition lock-out feature reduces battery drain
- Detachable digital remote display
- Shore power with automatic transfer switch



## FREEDOM X/XC

**1200–1800 watt pure sine with 2400–4000 watt surge**

- OE hardwired with external outlet
- Adjustable LVD protects truck batteries
- Handles standard sleeper cab AC appliances and electronics
- Handles hard-to-start fridge and microwave loads
- Shore power with automatic transfer switch
- Built-in digital status display
- -4°F–104°F temperature range for operation in all climates
- Freedom XC includes built-in 80 A charger

OEM	Inverter	OEM Part #	OEM Code	Description
Volvo	Freedom HF	23137545	LNXAIX	1800 W, 40 A inverter/charger, GFCI and/or hardwire, modified sine
Freightliner/ Western Star	Freedom HF	A06-9338-000	337-012	1500 W, 12.1 V LVD, 40 A inverter/charger, GFCI/hardwire, modified sine
	Freedom HF	A06-9338-001	337-012	1500 W, 11.8 V LVD, 40 A inverter/charger, GFCI/hardwire, modified sine
	Freedom X	A66-19791-000	337-022	1200 W, 12.1 V LVD, pure sine
	Freedom X	A66-19791-001	337-022	1200 W, 11.8 V LVD, pure sine
Mack	Freedom HF	22329211	C320006	1800 W, 40 A inverter/charger, GFCI/hardwire, modified sine
Peterbilt	Freedom HF	8511077	7855190	1800 W, 40 A inverter/charger, GFCI/hardwire, modified sine

# FREEDOM X/XC ACCESSORIES



## FREEDOM X Bluetooth Remote Panel with 25' Cable

Enables you to control & monitor the inverter from a convenient location and read important information such as AC IN/OUT voltage/current, battery voltage/current, percentage status bar for inverter AC output and fault & error codes. Download and connect to the Xantrex app, available on Android and iOS.

**FREEDOM X Remote Panel with 25' Cable also available allowing for all the same functionality, but without the option to connect via bluetooth.**

Part #	Description
808-0817-01	FREEDOM X Remote Panel with 25' Cable
808-0817-02	FREEDOM X Bluetooth Remote Panel with 25' Cable

## FXC CONTROL APP



DOWNLOAD ON



CONNECT WITH Bluetooth

- Easily monitor system status
- Monitor alerts
- Change settings conveniently
- Connect via bluetooth
- Available on Android and iOS



# AFTERMARKET INVERTERS



## XPowert

### 1500 watt modified sine inverter with 3000 watt surge

- Handles standard sleeper cab AC appliances and electronics
- Internal GCFI AC outlet
- Remote on/off switch for driver convenience
- UL approved and 1-year warranty



## Invert Modified Sine

### 1500 watt modified sine inverter with 3000 watt surge and battery protection

- Handles standard sleeper cab AC appliances and electronics
- 12.2 Volt LVD protects truck batteries
- Internal GCFI AC outlet
- Remote on/off switch for driver convenience
- UL approved and 3-year warranty



## Invert Pure Sine

### 1500 and 2000 watt pure sine inverter with 3000/4000 watt surge

- Handles standard sleeper cab AC appliances and electronics
- Adjustable LVD with DynaBalance to protect truck batteries
- AC power interruption protection
- Handles hard-to-start fridge and microwave loads
- Remote on/off switch for driver convenience
- Included 3-year warranty



## FREEDOM X/XC

### 2000 and 3000 watt pure sine with 4000/6000 watt surge

- OE hardwired with external outlet
- Adjustable LVD protects truck batteries
- Handles standard sleeper cab AC appliances and electronics
- Shore power with automatic transfer switch
- Handles hard-to-start fridge and microwave loads
- Built-in digital status display
- Freedom XC includes built-in 80 A charger
- -4°F-104°F temperature range for operation in all climates

Part #	Models
100-292	1500 W XPowert modified sine wave inverter
9201-0001-A-A	1500 W XPowert modified sine wave inverter
INV01500-1	1500 W Pure Sine with Controller: 12.4 shut-off voltage
INV01500-2	1500 W Pure Sine with Controller: 12.2 shut-off voltage
INV01500-3	1500 W Pure Sine with Controller: 12.0 shut-off voltage
INV01500-4	1500 W Pure Sine with Controller: 11.8 shut-off voltage
INV01500	1500 W Pure Sine with Controller: Programmable
INV02000-1	2000 W Pure Sine with Controller: 12.4 shut-off voltage
INV02000-2	2000 W Pure Sine with Controller: 12.2 shut-off voltage
INV02000-3	2000 W Pure Sine with Controller: 12.0 shut-off voltage
INV02000-4	2000 W Pure Sine with Controller: 11.8 shut-off voltage
INV02000	2000 W Pure Sine with Controller: Programmable

Part #	Models
817-2000-01-A	Freedom X 2000 Inverter - Truesine 2000 W, 120 AC/12 DC, Hardwire, Transfer, 11.8 V LVD with Outlet
817-2000-02-A	Freedom X 2000 Inverter - Truesine 2000 W, 120 AC/12 DC, Hardwire, Transfer, 12.2 V LVD with Outlet
817-2000-03-A	Freedom X 2000 Inverter - Truesine 2000 W, 120 AC/12 DC, Hardwire, Transfer, 12.0 V LVD with Outlet
817-3000-01-A	Freedom X 3000 Inverter - Truesine 3000 W, 120 AC/12 DC, Hardwire, Transfer, 11.8 V LVD with Outlet
817-3000-02-A	Freedom X 3000 Inverter - Truesine 3000 W, 120 AC/12 DC, Hardwire, Transfer, 12.2 V LVD with Outlet
817-2080-01	Freedom XC 2000 Inverter/Charger - Truesine 2000 W, 80 A, 120 AC/12 DC, Hardwire, Transfer, 11.8 V LVD with Outlet
817-2080-02-A	Freedom XC 2000 Inverter/Charger - Truesine 2000 W, 80 A, 120 AC/12 DC, Hardwire, Transfer, 12.2 V LVD with Outlet

# INSTALLATION INVERTER HARNESSSES



## Premium Harness

- Flexible EPDM 600 volt
- 125C 1/0 cable
- 100% circuit protection
- Chassis ground included to avoid shorts
- Pass through plate and mounting hardware included for easy install
- Various length options



## Economy Harness

- Flexible EPDM 600 volt 125C
- 2 AWG cable
- 100% circuit protection for driver safety
- Chassis ground included to avoid shorts
- 8 and 10 feet options
- Mounting hardware included for easy install

Part #	Models
P808-1003	1500 W Inverter Harness, 1/0, 7.0 ft Red, 5.7 ft Black, 5.0 ft Chassis, 150 A FC, 1 Plate
P808-1003-SCR	1500 W Inverter Harness, 1/0, 8.0 Red, 6.7 Black, 5.0 Chassis, 150 A FC, 1 Plate
P808-1004FC	1500 W Inverter Harness, 1/0, 10.0 Red, 10.0 Black, 5.0 Chassis, 150 A FC, 1 Plate
P808-1005FC	1500 W Inverter Harness, 1/0, 8.5 Red, 8.5 Black, 5.0 Chassis, 150 A FC, 2 Plates
P808-1016FC	1500 W Inverter Harness, 1/0, 15.0 Red, 15.0 Black, 5.0 Chassis, 150 A FC, 1 Plate
P808-1018FC	1500 W Inverter Harness, 1/0, 11.0 Red, 11.0 Black, 5.0 Chassis, 150 A FC, 1 Plate
P808-1020FC	1500 W Inverter Harness, 1/0, 10.5 Red, 10.5 Black, 3.0 Chassis, 150 A FC, 1 Plate
P808-1022FC	1500 W Inverter Harness, 1/0, 8.5 ft Red, 7.5 ft Black, 3.0 ft Chassis, 150 A FC, 1 Plate
P808-1003-SRC-2	2000 W Inverter Harness, 1/0, 8.0 Red, 6.7 Black, 5.0 Chassis, 200 A FC, 1 Plate
P808-1004-200FC	2000 W Inverter Harness, 1/0, 10.0 Red, 10.0 Black, 5.0 Chassis, 200 A FC, 1 Plate

Part #	Models
P808-1005FC-200	2000 W Inverter Harness, 1/0, 8.5 Red, 8.5 Black, 5.0 Chassis, 200 A FC, 2 Plates
P808-1016FC-200	2000 W Inverter Harness, 1/0, 15.0 Red, 15.0 Black, 5.0 Chassis, 200 A FC, 1 Plate
P808-1018FC-200	2000 W Inverter Harness, 1/0, 11.0 Red, 11.0 Black, 5.0 Chassis, 200 A FC, 1 Plate
P808-1020FC-200	2000 W Inverter Harness, 1/0, 10.5 Red, 10.5 Black, 3.0 Chassis, 200 A FC, 1 Plate
P808-1004FC-300	3000 W Inverter Harness, 1/0, 10.0 ft Red, 10.0 ft Black, 5.0ft Chassis, 300 A FC, 1 Plate
P808-1005FC-300	3000 W Inverter Harness, 1/0, 8.5 ft Red, 8.5 ft Black, 5.0ft Chassis, 300 A FC, 2 Plates
P808-1016FC-300	3000 W Inverter Harness, 1/0, 15.0 ft Red, 15.0 ft Black, 5.0ft Chassis, 300 A FC, 1 Plate
9202-0004-A-A	Economy Inverter Harness, 2AWG, 8.0 ft Red, 8.0 ft Black, 5.0ft Chassis, 150 A FC, No Plate
9202-0004-B-A	Economy Inverter Harness, 2AWG, 10.0 ft Red, 10.0 ft Black, 5.0ft Chassis, 150 A FC, No Plate

# AFTERMARKET OUTLET INVERTER HARNESSSES



Single External Outlet Kit



Dual External Outlet Kit



Shore Power Kit



Add-On Outlet Only



54", 96", or 163" Extension



Y Splice

Part #	Models
9205-0001-A-A	Single Outlet Kit, 84"
9205-0002-A-A	Dual Outlet Kit, 84" and 180"
9205-0003-A-A	Shore Power Kit, 84"
100-417	Surface Mount Add-on Outlet
100-419	Interior Cordset Extension, 14/3 SJ0W, 96" (To Outlet)
100-420	Interior Cordset Extension, 14/3 SJ0W, 163" (To Outlet)
100-421	Interior Cordset Extension, 14/3 SJ0W, 54" (To Outlet)
100-425	Interior Cordset, Y Splice, 20 A, 14/3, SJ0W, 15.8" (To Outlet)
100-429	WP Receptacle, Chrome, Cab Power Insignia
100-430	Exterior Cordset, WP Plug, 85" (To WP Receptacle)
100-431	Mounting Bracket for WP Receptacle



# MISCELLANEOUS SOLUTIONS



## Fifth Wheel Light

**Illuminate the king pin lock-jaw position and reduce dropped trailers, making it easier to verify the tractor is properly connected.**

- Illuminates the king pin lock-jaw position on the 5th wheel
- Allows drivers to easily see proper coupling
- Helps prevent expensive accidents, like dropped trailers
- Works automatically both day and night
- Makes drivers' jobs easier and safer

Part #	Description
L00041	Fifth Wheel Light



## SafeFreight™

**A delivery truck alarm system that provides an audible alarm if the door on a vehicle is opened without authorization.**

- Provides an audible alarm if the vehicle door is opened without permission
- Modular design for ease of installation, troubleshooting, and repair
- No annual maintenance fees
- Inexpensive to maintain (off-the-shelf parts)
- No special keys required

Part #	Description
900-6	SafeFreight Alarm Kit, Single Door



## Aware

**An audio interrupter is an advanced audio interface management system that integrates with a vehicle's existing speaker array.**

- Integrates with a vehicle's existing speaker array
- Relays messages wirelessly through the vehicle audio system rather than the small speakers of a telematic system tablet
- Relays messages through the truck speakers, even when the radio is off
- Ensures the message is clear, even at freeway speeds
- Assists in driver safety
- Uses plug-and-play technology for quick installation
- Remains hidden after installation
- Allows for an optional cell phone microphone connection for hands-free use (microphone sold separately)
- Includes 3-year warranty

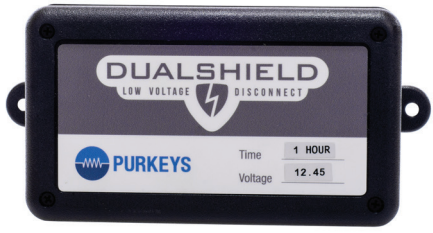
Part #	Description
CNVR-2000-BT	Aware Audio Interrupter

# MISCELLANEOUS SOLUTIONS



## Purkeys Sentinel Low Voltage Disconnect (LVD) COMING SOON

- Disables the use of the liftgate when batteries reach a low state of charge
- Reactivates the gate automatically once the batteries are recharged
- Provides a text display to notify the operator of the system status
- Uses configurable LVD settings based on fleet and battery configuration
- Has an override feature that gives the operator one last chance to stow the liftgate
- Comes with a remote override
- Logs LVD events



## Dual Shield Low Voltage Disconnect (LVD)

Designed to shut off parasitic loads either by voltage or by time to drastically reduce the parasitic drain on the vehicle's batteries.

- Reduces parasitic drain and counters parasitic loads on the vehicle's batteries
- Provides fuse-protected junctions for additional electronic devices
- Simplifies adding electrical devices
- Provides timed disconnect and low voltage disconnect options
- Includes built-in safety features, like LED lights, to alert drivers and technicians of the status of the input and outputs

Part #	Description
DSLVD-01	Multichannel LVD
DSLVD-02	Single Channel LVD



## SteadyCharge™

Maintains accessory batteries on a trailer during months of non-use without overcharging them or depleting the tractor batteries.

- Maintains accessory batteries on a trailer (i.e. heater batteries, etc.)
- Eliminates the need for extra charging cables
- Automatically adjusts charging for cold climates
- Will not affect function of ABS system
- Robust design appropriate for external mounting
- Increases battery state of charge and battery life
- Includes easy-to-read indicator lights
- Includes 3-year warranty

Part #	Description
900-15	SteadyCharge™ Auxiliary Battery Charger

# POWER ACCESSORIES



## Auto Ejects

- 120 Volts AC, 20 Amps
- Automatically disconnects shoreline
- Completely sealed
- Eliminates broken shoreline
- Includes 2-year warranty
- Can use a Standard Waterproof Cover, Deluxe Trailer
- Eject model designed for vehicles that do not have a "Starter Signal"
- Variety of 15 A and 20 A models

Part #	Description
091-55-15-120	Super Auto Eject, 15 A
091-55-20-120	Super Auto Eject, 20 A



## Battery Isolaters

- Controller that detects when a vehicle's alternator is charging the main battery and then closes a solenoid to tie-in charge to an auxiliary battery
- When the engine is stopped or charge voltage is no longer present, the solenoid opens to isolate the batteries
- Uses a solenoid rather than an isolation diode which typically causes a 0.7 volt drop, thus auxiliary battery receives full charge

Part #	Description
091-139-2-12	Auto Isolator I
091-208-3-12	Auto Isolator 3



## Dual USB Port

- Dual USB charging ports
- Quick and easy way to recharge electronic devices in a vehicle
- 4.8 Amps max output allows charging of two iPads/tablets at the same time
- Reverse polarity protected
- Can be connected to 12 V or 24 V switched ignition or directly to battery
- Additional protection with closed weather-proof door in Weatherproof model

Part #	Description
091-219-5	USB Dual Port 4.8
091-219-5-038-1	USB EZ Mount Assembly
091-219-5-WP	Weather Proof USB Dual Port 4.8
091-264	Dual Port USB-C & USB-A SVR
091-264-N	Dual Port USB-C & USB-A NGR



## Load Manager

- Variety of models with different number of loads shedding
- Automatically sheds loads to prevent electrical system overload
- Eliminates power surges in electrical system
- Controls load relays
- Reversible load shed sequencing
- Remote manual override

Contact our sales team for a list of various SKUs for your application. See back cover for your regional sales representative.



# POWER ACCESSORIES



## Mini Single Bar Graph Display

- 10 LED Bar Graph battery status display
- Works with all new generation single output Kussmaul Battery Chargers
- Designed for easy installation in vehicle switch panels
- Detects the vehicle battery's high and low voltage by flashing the top or bottom LEDs, respectively
- Includes 3-year warranty

Part #	Description
091-234	Mini Single Bar Graph Display



## Power Distribution System

- Quick and easy way to connect, protect, and program power to emergency vehicle accessories
- Provides 6 dedicated fused circuits configured in three load group to power radios, emergency lights, siren, video, MDT, radar, and more
- Each circuit is fuse protected with LED indicator which identifies the blown fuse position, implifying trouble shooting
- Master Low Voltage Disconnect protects batteries from extreme discharge

Part #	Description
390-5711-0	Power Distribution System, PDS-100



## Temperature Monitor

- Designed for easy installation in vehicle switch panels
- Large 7 segment green LED display
- Reverse polarity protected
- Easy connection to 12 V switched ignition
- Remote Sensor with 16' cable
- Blinks at 32°F (0° C) and below to indicate roads may be icy
- Includes 3-year warranty

Part #	Description
091-224	Temperature Monitor



## 7 Door - Open Door Display

- Indicates location of open door (up to 7 doors)
- Fits in standard Eaton Rocker switch opening
- Available with custom OEM marking
- Compact, easy installation
- Includes 3-year warranty

Part #	Description
091-178-7A	7 Door - Open Door Display



MCE VEHICLE POWER



PURKEYS

xantrex™

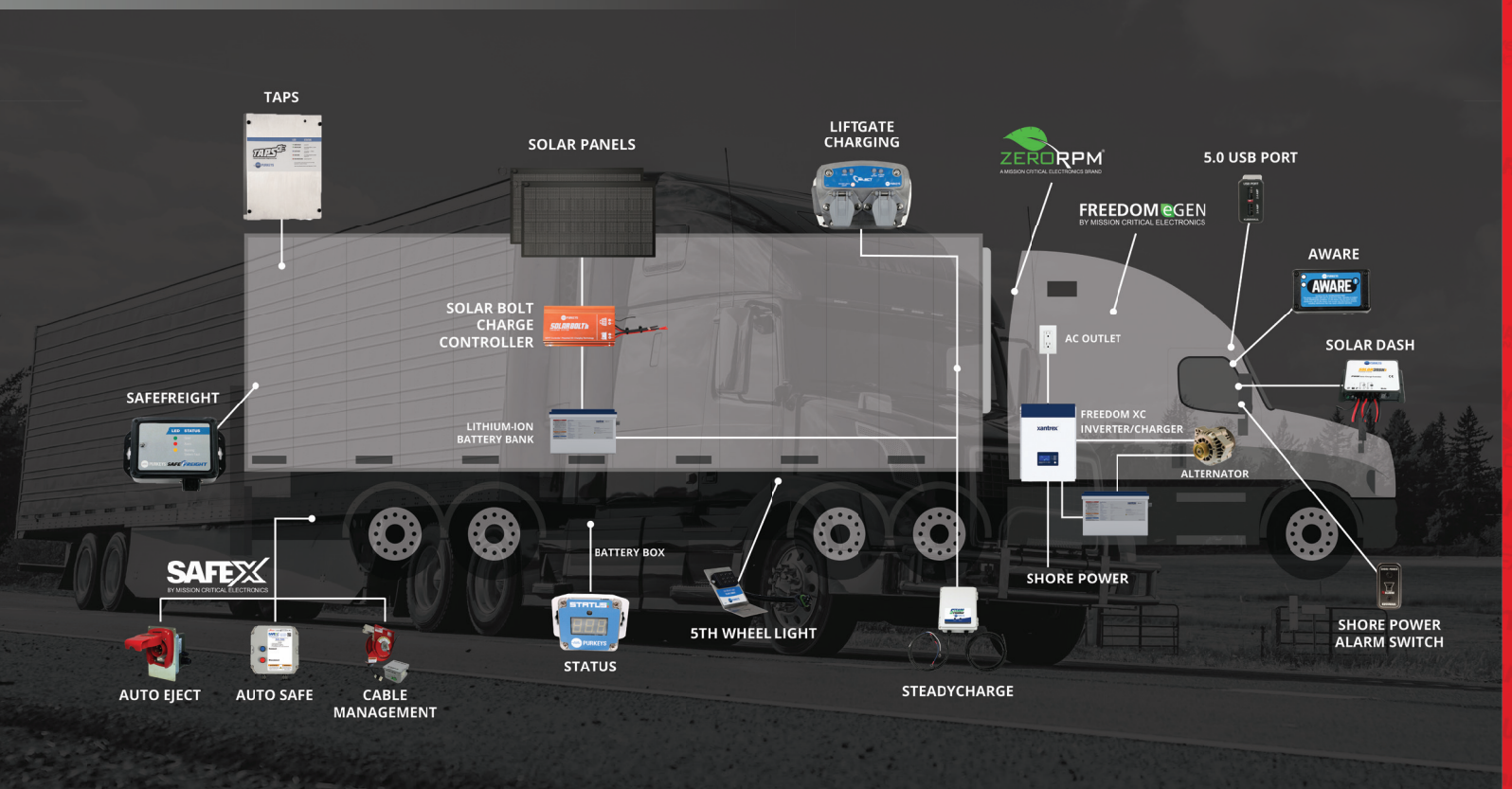


## ABOUT MISSION CRITICAL ELECTRONICS

Mission Critical Electronics (MCE) is the parent of industry leading brands such as American Battery Charging, ASEA Power Systems, DuraComm, Kussmaul Electronics, Newmar Power, Power Products, Purkeys, Xantrex, and ZeroRPM. Headquartered in Costa Mesa, California, MCE is a leader in the development of innovative solutions for power conversion, energy storage, power generation and shore power connectivity for a wide variety of applications in vehicle, marine, industrial and network markets. MCE takes great pride in translating its customers' needs into the highest quality products and solutions available in the markets it serves. MCE delivers its products and solutions with an unmatched level of responsiveness.

MCE serves its customers in North America through nine offices and a third-party warehousing facility. MCE also maintains manufacturing facilities in the US and employs over 300 people. MCE continues to invest in advanced and innovative technologies for electrification of power systems in vehicles and boats.

### HEAVY-DUTY TRUCK



**A COMPLETE SUITE OF FLEET POWER CHARGING SOLUTIONS,  
INCLUDING ENERGY STORAGE AND SOLAR.**

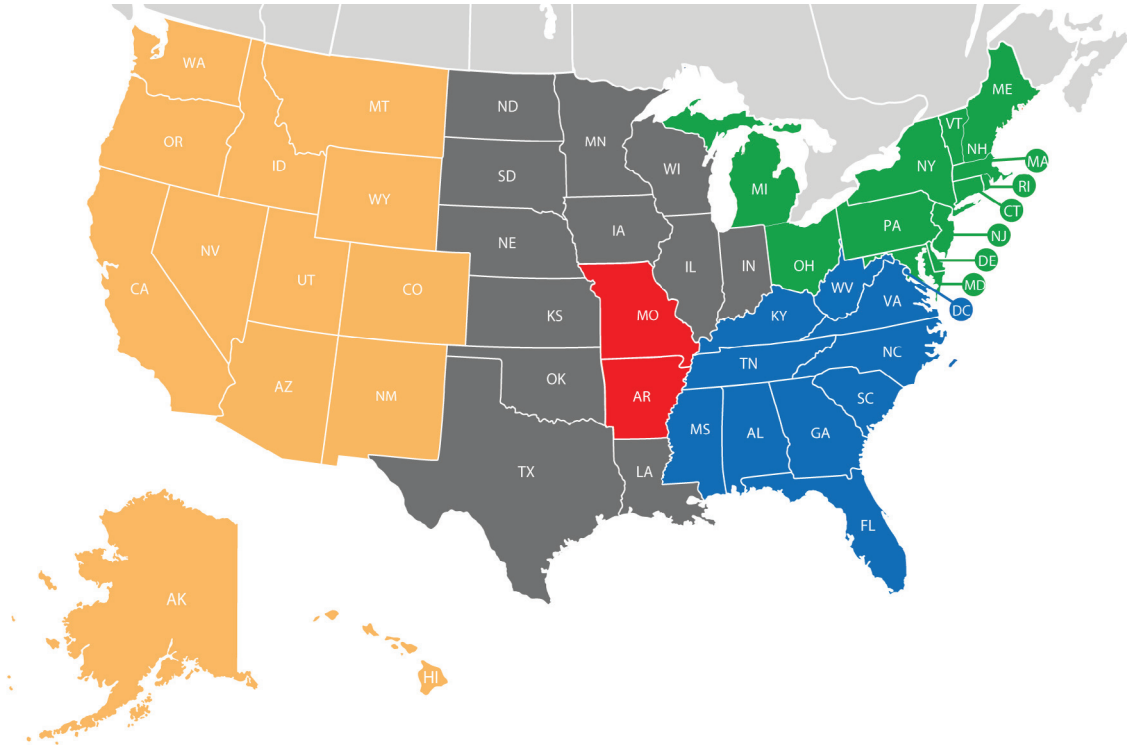


MCE VEHICLE POWER



PURKEYS

xantrex™



## SALES REPRESENTATIVES AND CUSTOMER SERVICE

**Hall Fess**  
Director of Sales - HD Truck  
501-539-0611  
hfess@purkeys.net

● **Larry Rambeaux**  
Sales Application Engineer  
479-531-7769  
lrambeaux@purkeys.net

● **Jimmy Fielding**  
Sales Application Engineer  
479-305-2877  
jfielding@purkeys.net

● **Bob Mitchell**  
Account Manager  
904-540-7425  
bmitchell@purkeys.net

● **Columbus Calley**  
Account Manager  
479-640-8248  
ccalley@purkeys.net

● **David Arriaga**  
Account Manager  
951-570-3356  
darriaga@purkeys.net

**Customer Service**  
479-419-4800  
orders@purkeys.net

**Warranty**  
479-419-4800  
warranty@purkeys.net