

51VDC 3,000W Inverter-Charger

Inverter-Charger Series



CAT # 54-552-3000



KEY BENEFITS

- + **RV-C CANbus Support:** Integration for real-time diagnostics and enhanced system communication
- + **High Peak Power:** Up to 6,000W for device start up surge
- + **True Sine Wave Support:** Delivers clean, consistent power

Reliable Power, Exceptional Efficiency

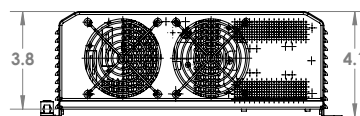
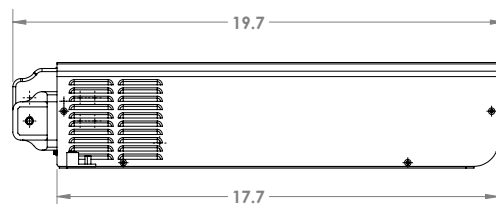
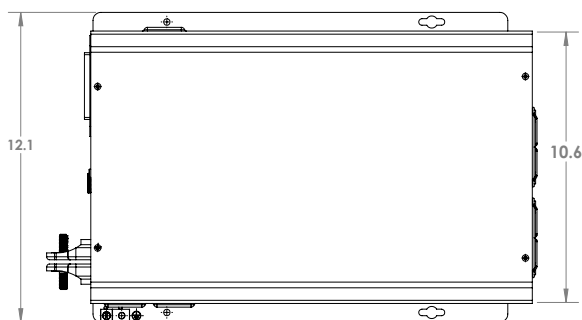
Experience seamless integration and efficiency. With no programming required, this system utilizes RV-C CAN technology to communicate directly with the Battery Management System. Combining a powerful 3,000W DC-AC Inverter and a transfer switch with a multi-stage battery charger ensures optimal battery health.

Inverter-Charger Details

Built-in GFCI Receptable with Ability to Be Hardwired
Designed for Lithionics Battery Systems

DIMENSIONS

Size (L x W x H)	19.7" x 12.1" x 4.2"	500.4mm x 309.9mm x 106.7mm
Weight	22.9lbs	10.4kg



SPECIFICATIONS

AC OUTPUT

Continuous Power	3,000W
(Peak-1 second) Surge Power	6,000W ¹
Voltage/Frequency	120V/60Hz
Current	25A
True Sine Wave	(<5% THD)
Peak Efficiency	0.92
Inverter Stability Current	0.8A
AC Receptacle	NEMA 5-20 GFCI

AC INPUT

AC Voltage Range	108V-132V
AC Input Frequency	60Hz $\pm$ 5Hz

DC INPUT

Nominal Input Voltage	51.2V
Input Voltage Range	42-65VDC
Idle Current	<0.8A Current (no load)
Terminal	M8 Studs
Terminal Torque	9-10ft-lb (12-13Nm)

BATTERY CHARGER

Battery Support	RV-C CANbus
Battery Chemistry	LiFePO ₄
Charge Current	30ADC
Power Sharing	Reduces Charger Current when a heavy AC load is connected

PROTECTION FEATURES

Battery Input Undervoltage	48.0V Shutdown 50.0V Warning 52.0 Recovery
Battery Input Overvoltage	60.0V Shutdown
Inverter Overload	2,800W Warning 3,300W Shutdown
Unit Over-temp Warning/Shutdown	Yes

AC TRANSFER SWITCH

Transfer Switch Rating	30A
Transfer Time	<30ms
AC Input Port	Hardwire 30A
Heavy Duty Terminal AC Output Port	30A
Hardwire	
Terminal	Heavy Duty Terminal or NEMA 5-20 GFCI

ENVIRONMENTAL

Operating Temperature	32°F (0°C) to 104°F (40°C) ²
Storage Temperature	-4°F (-20°C) to 140°F (60°C)
Operating Altitude	Up to 9,843ft (3,000m) above sea level

INTERFACE (MAIN UNIT)

Power On/Off Switch	Push Button
Indication	3 LEDs - Power, AC Output, & Unit Status
Port	Remote Control Panel Port
Ignition Start Port	For use with Vehicle 'ACC' Signal (+12V)

REMOTE CONTROL PANEL

Indication	Power
	AC Output
	Unit & Battery Status (LED)
Display	LCD with Backlight
Numerical Display Functions	Battery Voltage
	AC Power
	DC Current
Graphical Display Functions	AC Bypass
	Battery Power
	AC Input
	Battery Status
	Warning Fault Code

REGULATORY COMPLIANCE DC

UL 458

FCC Part 15 Class B

CSA

cETLus

1. Soft-start required to support 120V A/C units.
2. If temperature is exceeded all functions will be disabled until system cools down.

Powering Innovation.

Discover the right lithium replacement system for you. Reach out to Lithionics' expert support team to find your perfect power solution.

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