



USER MANUAL



RV CIRCUIT ANALYZER WITH SURGE PROTECTION



Thanks for purchasing the LATCH.IT RV Surge Protector!
We are a family owned American business that
cares about your RV needs!

**WELCOME
TO THE
FAMILY!**



Please review, read and understand ALL instructions to ensure proper
functionality.



If you have any questions or concerns, don't hesitate to reach out to us,
we are always available at info@latchit.org

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01

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	
Operating Current	50 Amps
Operating Voltage	120 Volts
Maximum Watts	12000W
Energy Dissipation	5000 J
Voltage Range	90 - 140 Volts
Reverse Polarity Indication	YES
Power Indicator Lights	YES
Corrosion Resistant	YES
Surge Protection Indication	YES
UL Certified	YES

WARNINGS AND NOTICES

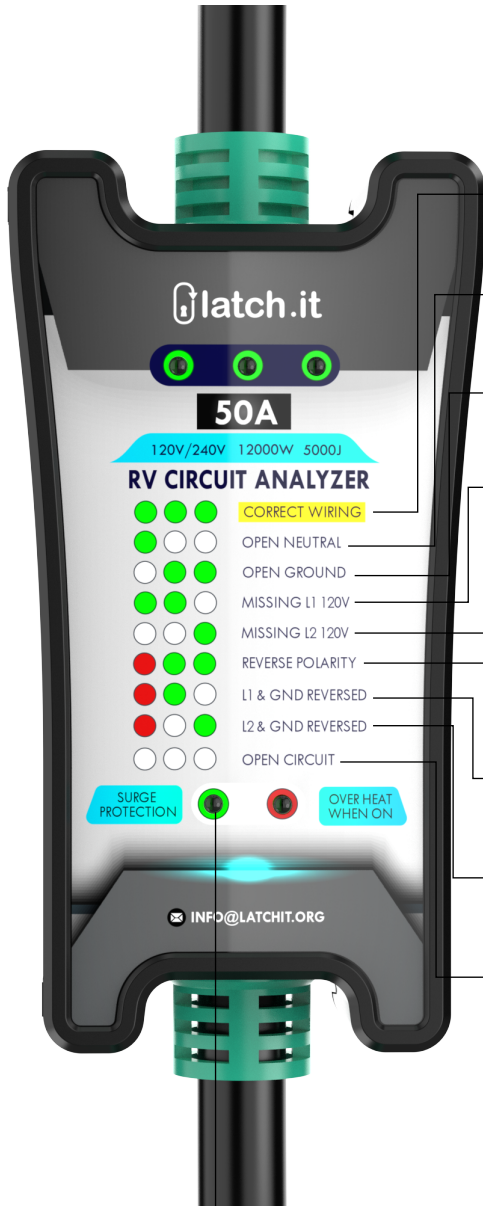
-  ALWAYS verify surge protection and correct wiring BEFORE plugging in your RV.
-  ONLY USE with 50Amp applications – over amperage could lead to fires!
-  Surge protection will RESET after a voltage spike under 5000J.
-  If Surge Protection light is not on or LED Indicator shows wiring faults, DO NOT use.
-  We do not recommend using extension cables due to various specifications, however, always ensure it is not overheating under full load.

02

LED INDICATORS & WHAT TO DO

SMART DIAGNOSTIC CHART

DIAGRAM 1 - WIRING LED INDICATORS



LED PATTERN	INDICATES	RESULT	NEXT STEP
	CORRECT WIRING		Plug in your RV
	OPEN NEUTRAL		Contact RV Park Management or electrical professional to fix the power issue. Do not connect to this power source and move to another.
	OPEN GROUND		
	MISSING L1 120V		
	MISSING L2 120V		
	REVERSE POLARITY		
	L1 & GND REVERSED		
	L2 & GND REVERSED		
	OPEN CIRCUIT		

DIAGRAM 2 - SURGE PROTECTOR LED INDICATOR


PATTERN	INDICATES	RESULT	NEXT STEP
	ACTIVE SURGE PROTECTION		Surge Protection is active. It is safe to plug in your RV.
	NO SURGE PROTECTION		CAUTION!! Surge protection is NOT active!



Any of the above faults could indicate possible mis-wiring or open connections at source which can be very dangerous. Contact a licensed professional, park staff or simply move onto the next power source and re-test location.

03

HOW TO PROPERLY OPERATE YOUR SURGE PROTECTOR

- 1 Plug in RV Circuit Analyzer to compatible 50A ~120V power source. DO NOT plug into RV yet.
- 2 Ensure Surge Protection LED Indicator is lit (Light with Blue Ring)
- 3 Check LED Indicator lights to ensure NO wiring faults inside power source (See LED Indicator table on page 2).
 *If there is a wiring fault, contact park management, staff or professional to fix power source and move to another power source location.*
- 4 If LED Indicator lights show both “Correct Wiring” and “Surge Protection”, then it’s safe to connect your RV.



04

Oops! Something Went Wrong... TROUBLESHOOTING

Scan with your smart phone camera to contact
LATCH.IT Support via the Official Website

www.latchit.org



Email us at info@latchit.org with any questions
or concerns, our support team is always available!

