

## Surge Guard Plus

### RVC Compatible

### Automatic Transfer Switch with

### Full RV Power Protection

### 120/240V, 50A, 60 Hz

Total electrical protection for your RV. Protects your RV bumper to bumper from faulty park and generator power. Optional, easy to read LCD display constantly monitors and displays the condition of power being supplied to your RV.

The Surge Guard Plus ATS is UL 1008 approved (ATS rated). Unit transfers to generator power automatically when energized after a 30 second delay. When both shore power and generator power are available, generator dominates after a 30 second delay. Once the generator is shut down, shore power activates after a 3-4 second delay.

### FEATURES

- RVC Communication allows instant display of voltage, current and fault conditions on an RVC compatible device.
- 65A, FLA full-rated contactor mounted on vibration isolators to ensure quiet operation.
- Over/under voltage protection. Contactor opens at voltage below 95V or above 132V after a 2 second delay. Instantaneous trip at voltages above 140V.
- Over/under frequency protection. Contactor opens outside of (54-70Hz) range after 30-second delay.
- Source power connection integrity. Contactor will not close or will open in the event of an open source conductor or miswire. (L1, L2, Neutral and Ground.)
- Brown/blackout and voltage protection is followed by a 2 min 30 second delay after removal of power to ensure AC compressor head bleed off.
- Measures and displays both L1 & L2 load current independently.

#### Surge Guard Features:

- 4-mode protection, 3,350 Joules
- Energy capacity – 130,000 Amps peak.
- Fuse protected L1/L2 surge suppressers.
- Plain text display (Replace Surge) of open fuses indicating a failed MOV or open surge connection.

#### Remote Panel Indicator (Optional):

- Continuous visual indication of source voltage (L1, L2) load current or diagnostics.
- Plain English display of faults. No cryptic error codes.
- LCD technology with automatic light sensitive back lighting for easy reading in any ambient light condition.

#### 3<sup>rd</sup> Party Display System:

- RS232 and RVC data stream for communication with external equipment.



Model  
40250-RVC



Optional  
40272



Listed UL 1008

L1 - Neut. Reading	L2 - Neut. Reading	Neutral Status	Ground Status	Display Example
95-132V	95-132V	(Normal)	(Normal)	120V 25A 118V 30A
Less Than 75V	(Normal)	(Normal)	(Normal)	L1 Open
(Normal)	Less than 75V	(Normal)	(Normal)	L2 Open
76-95V	(Normal)	(Normal)	(Normal)	Low Volt L1=95V
(Normal)	76-100V	(Normal)	(Normal)	Low Volt L2=95V
Greater than 132V	(Normal)	(Normal)	(Normal)	High Volt L1=135V
(Normal)	Greater than 132V	(Normal)	(Normal)	High Volt L2=135V
Greater than 140V	(Normal)	(Normal)	(Normal)	Reverse Polarity
(Normal)	Greater than 140V	(Normal)	(Normal)	Reverse Polarity
(Normal)	(Normal)	(Normal)	(Normal)	Low Freq 52Hz
(Normal)	(Normal)	(Normal)	(Normal)	High Freq 68Hz
(Normal)	(Normal)	Open	(Normal)	Open Neutral
(Normal)	(Normal)	(Normal)	Open	Open Ground
Open L1 Fuse	Open L2 Fuse			Replace Surge