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## 9200 Power Supply

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This document discusses the installation and specifications for the following 9200 meter power supply options:

- ◆ Standard AC/DC power supply
- ◆ Low voltage DC power supply
- ◆ 480V power supply

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### Additional Information

- ◆ *9200 Installation and Operation Guide*

# Replacing the Power Supply

## DANGER

Installation and maintenance of ACCESS meters and meter options should only be performed by qualified personnel that have appropriate training and experience with high voltage/current devices. Refer to Installation Considerations, and the Danger, Warning, and Limitation of Liability notices in the *9200 Installation and Operation Guide*.

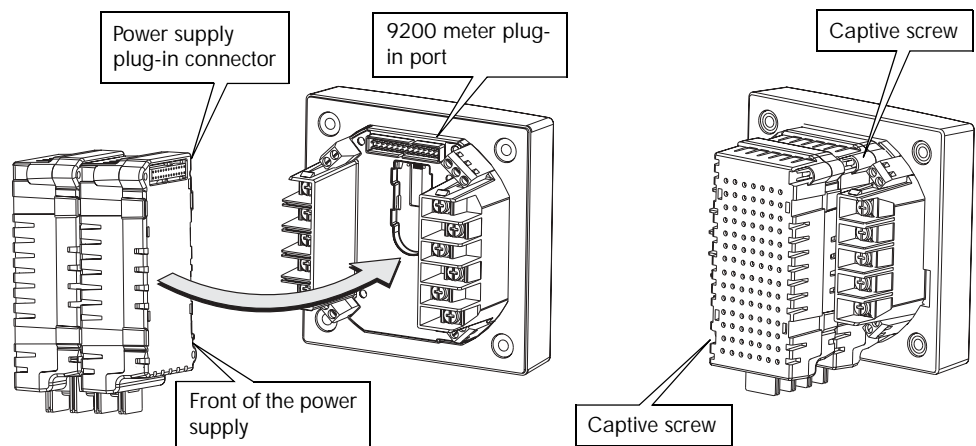
1. Turn off all power to the meter.
2. Ensure that all cables still connected to the meter are **not** live.
3. Ensure that the Line and Neutral (or DC power) wires to the power supply inputs of the meter are **not** live (if you are replacing an existing power supply).
4. Fit the power supply plug-in connector to the meter plug-in port.

## NOTE

All 9200 power supply models are installed the same way; the diagram for the 480V power supply is included to show the greater depth dimension of that model.

5. Tighten the two (captive) screws until the power supply fits snugly against the meter. Do not overtighten the screws.

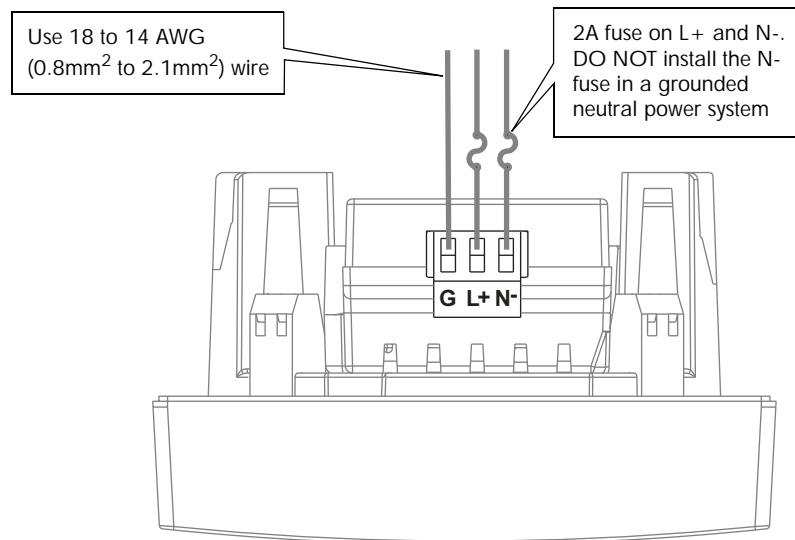
## Plugging in the Power Supply



# Wiring the Power Supply

The meter requires a constant power supply to maintain monitoring, analysis, control, and communications operations. Powering the device from the voltage source it is monitoring is not suitable for applications where these operations must be maintained in the event of a power outage.

## Wiring the Standard AC/DC or Low Voltage DC Power Supply



### Standard AC/DC Power Supply

Connect the line supply wire to the L+ terminal and the neutral supply wire to the N- terminal.

### Low Voltage DC Power Supply

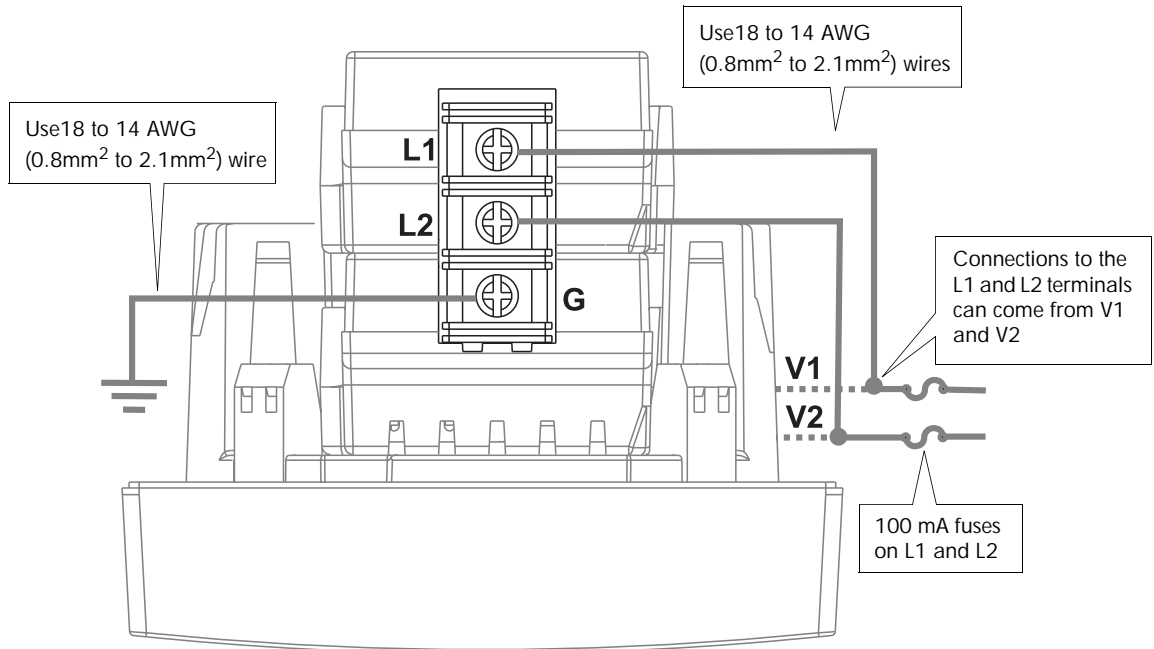
Connect the positive supply wire to the L+ terminal and the negative supply wire to the N- terminal.

The power supply G (ground) terminal must be connected to the same point as the meter  $\oplus$  terminal.

### Protective Fuses

If a Standard AC/DC or a Low Voltage DC power supply is being used, install a Type T (slow blow) 2A fuse on the L+ conductor. If the meter is powered by a grounded neutral power system, a fuse must NOT be installed on the neutral wire. If the line connected to the N/- terminal is not grounded in the breaker panel, then install a Type T (slow blow) 2A fuse on the N- terminal.

# Wiring the 480V Power Supply



## 480V Power Supply

Connect one phase to the L1 terminal and the other phase to the L2 terminal. You can use the same wires from the grid that the voltage inputs use (see diagram above).

The power supply G (ground) terminal must be connected to the same point as the meter Ⓧ terminal.

## Protective Fuses

The 480V power supply requires 100 mA fuses on the L1 and L2 terminals. These should be IEC type T slow blow fuses.

 **NOTE**

100 mA fuses can be shared with the voltage inputs.

# Powering Up the Meter

After the power supply is attached to the meter, and its wiring is connected:

1. Reconnect and energize all wiring that was disconnected when the meter was prepared for power supply installation.
2. Power up the meter and verify correct operation.

# Specifications

Power Supply	Rated Inputs	Meter	Maximum		Steady State		Dielectric Withstand
			VA	W	VA	W	
Standard AC / DC Power Supply	AC: 100 – 240 VAC, 50 – 60 Hz DC: 110 – 300 VDC Installation category II (Local). Pollution degree 2.	Integrated	13	8	8	5	2000 VAC RMS, 60 Hz for 1 minute
		TRAN / RMD	13	8	9	5	
		TRAN	5	3	5	3	
Low Voltage DC Power Supply	20 – 60 VDC	Integrated		6		4	
		TRAN / RMD		7		5	
		TRAN		3		3	
480V Power Supply	480 VAC, 60 Hz Installation category III (Distribution). Pollution degree 2.	Integrated	15	12	12	10	3250 VAC RMS, 60 Hz for 1 minute
		TRAN / RMD	15	12	13	10	
		TRAN	11	9	11	9	