

Batteries and Chargers 2081-9279, 110 Ah System Batteries and 2081-9280 Battery Cabinet

FEATURES

- **12 V, 110 Ah (ampere-hour) rating**
- **Maintenance-free sealed construction:**
 - Lead-calcium grid structure
 - Low self-discharge
 - Low internal resistance
 - Deep discharge protection
 - Meets agency listing requirements*
- **Flame arrester vent caps in accordance with UL 924 requirements**
- **Mounting requires battery cabinet 2081-9280***

DESCRIPTION

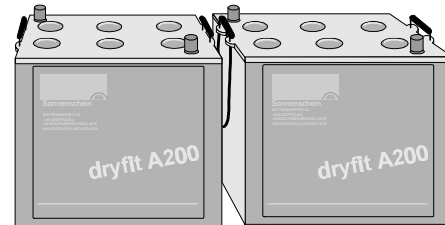
Model 2081-9279 sealed lead-acid batteries provide the charge and discharge operation required for dependable service in fire alarm equipment applications. Their sealed construction prevents emission of corrosive acid fumes and greatly reduces the potential for electrolyte spills under normal operating conditions. Each cell is vented with flame arrester vent caps which are recognized by Underwriter's Laboratories in accordance with UL Standard 924.

Low Self-Discharge. The low self-discharge characteristics of these batteries allow for long periods of intermittent use and for storage of up to 24 months in an ambient temperature of 68° F (20° C). Their low internal resistance provides the capability for high-rate charge/discharge cycling.

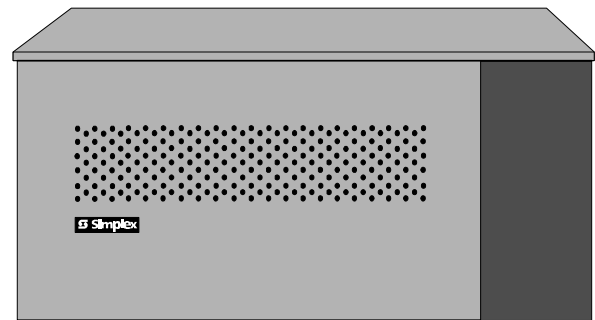
Charge/Discharge Performance. 2081-9279 batteries meet DIN Standard #43539. This standard stipulates that after 29 days of deep discharge, a battery must demonstrate a successful recharge within 48 hours using a constant charging voltage of 2.3 V per cell. Following a deep discharge, the loss in the battery's normal capacity shall not exceed 25% and this loss shall be regained after several charging cycles.

Note: Refer to Simplex drawing 900-012 for battery selection charts.

* UL, ULC, and FM fire alarm system requirements are satisfied when 2081-9279 batteries are used with a compatible Simplex charger and the compatible Simplex cabinet (ordered separately).



2081-9279 Batteries (2 required for 24 V system)



2081-9280 Battery Cabinet (ordered separately)

SPECIFICATIONS

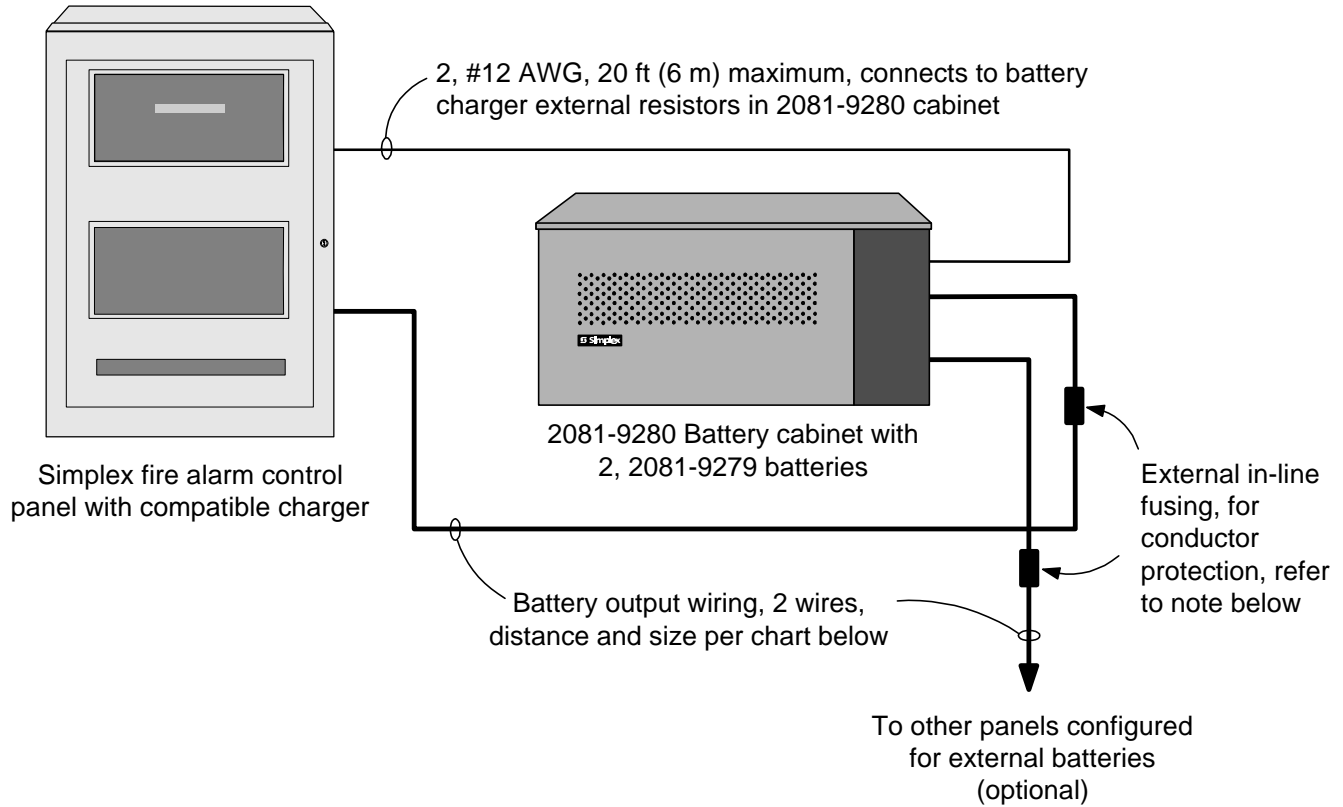
2081-9279 Battery

Capacity..... 110 Ah (at 20 hour discharge rate)
 Discharge Voltage 12 V per battery
 (2 required for 24 V system)
 Connections High current terminal posts
 Size (per battery) 11 3/16" W x 9" H x 10 1/2" D
 (284 mm x 230 mm x 267 mm)
 Weight (per battery)..... 82 lbs (37 kg)
 Compatible Simplex Battery
 Chargers*4100-0104, 4100-0114, 4100-0124
 Compatible Simplex Battery Cabinet* 2081-9280

2081-9280 Battery Cabinet

Dimensions..... 26 1/2" W x 12" H x 12" D
 (673 mm x 305 mm x 305 mm)
 Hardware IncludedTerminals and cables for
 compatibility with 2081-9279 batteries
 Battery Output Protection 80 A fuse
 Wiring Terminals#14 AWG to #2 AWG
 ColorRed

WIRING REFERENCE DIAGRAM



WIRING DISTANCE CHART

Required Minimum Wire Size	Maximum Distance per Battery Discharge Current Range						
	0-15 A	16-20 A	21-30 A	31-40 A	41-55 A	56-70 A	71-79 A
#14 AWG	26 ft						
#12 AWG	41 ft	31 ft					
#10 AWG	66 ft	50 ft	33 ft				
#8 AWG	106 ft	80 ft	52 ft	39 ft			
#6 AWG	168 ft	126 ft	83 ft	63 ft	45 ft		
#4 AWG	268 ft	201 ft	132 ft	100 ft	72 ft	56 ft	
#2 AWG	426 ft	320 ft	211 ft	160 ft	115 ft	89 ft	80 ft

2081-9280 BATTERY CABINET, ADDITIONAL WIRING INFORMATION:

1. Internal battery cabinet output fuse is 80 A for battery protection.
2. **In-line battery fuse requirement:** To protect the output conductors, install a line fuse rated properly to the load current in the battery plus (+) side of each output pair.
3. Battery output connects to multiple conductor terminal block for connections to other panels requiring external battery power.

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Gardner, Massachusetts 01441-0001 U. S. A.
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All specifications and other information shown were current as of printing and are subject to change without notice.