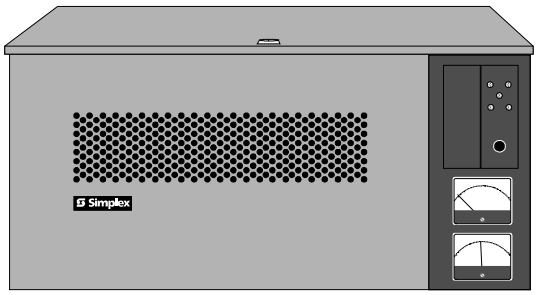
Multi-Application Peripherals and Accessories

Batteries and Chargers
2081 Series
Automatic Chargers and Battery Cabinets

UL Listed

FEATURES

- **Battery cabinets are available as:**
  - Cabinet with automatic dual-rate charger and with available ammeter and voltmeter
  - Cabinet only with available ammeter and voltmeter
- **Models with battery charger feature:**
  - Dual-rate, automatic operation for charging 24 V lead-acid batteries up to 33 Ah
  - Charger status LEDs
  - External battery voltage test points
  - 120/240 VAC Input
  - Optionally charger module for charging NiCad batteries
- **Vented cabinet has a hinged and lockable lid with support rod**
- **Cabinets are UL listed to Standard 864**
- **Chargers are UL listed to Standard 1481**



Simplex Remote Battery Cabinet
(model 2081-9303 shown)

Battery Cabinet Model Selection Chart*

Model	Description	Options	
		Charger	Meters
2081-9303	Battery cabinet	✔	✔
2081-9301		✔	
2081-9302			✔
2081-9270			

Charger Option for NiCad Batteries**

Model	Description	Compatibility
2081-9305	Charger option board for 20 cell NiCad batteries (not UL listed)	2081-9301 2081-9303

* Refer to data sheet S2081-0006 for compatible sealed lead-acid batteries.

** Refer to data sheet S2081-0010 for compatible NiCad batteries.

DESCRIPTION

Simplex battery cabinets are available as basic cabinets or with an internally mounted automatic dual-rate charger. Models are also available with an externally mounted ammeter and voltmeter for convenient access to battery voltage and charging current.

Battery charger. The battery charger is a dual-rate design that automatically recharges at a high rate then drops to a float rate charge. A fully discharged 33 Ah battery can be recharged to 70% of capacity within twelve hours. Charger status LEDs are visible from the front of the cabinet and the charger fuseholder is accessible from the front.

Available front panel meters. Battery voltage is monitored by a 0 to 50 VDC voltmeter. Battery charging current is monitored by a 0 to 3 A ammeter.

Cabinet construction. Cabinets are vented and constructed of 0.062” (16 mm) steel, primed and finished in red. A steel divider separates the battery chamber from the charger area.

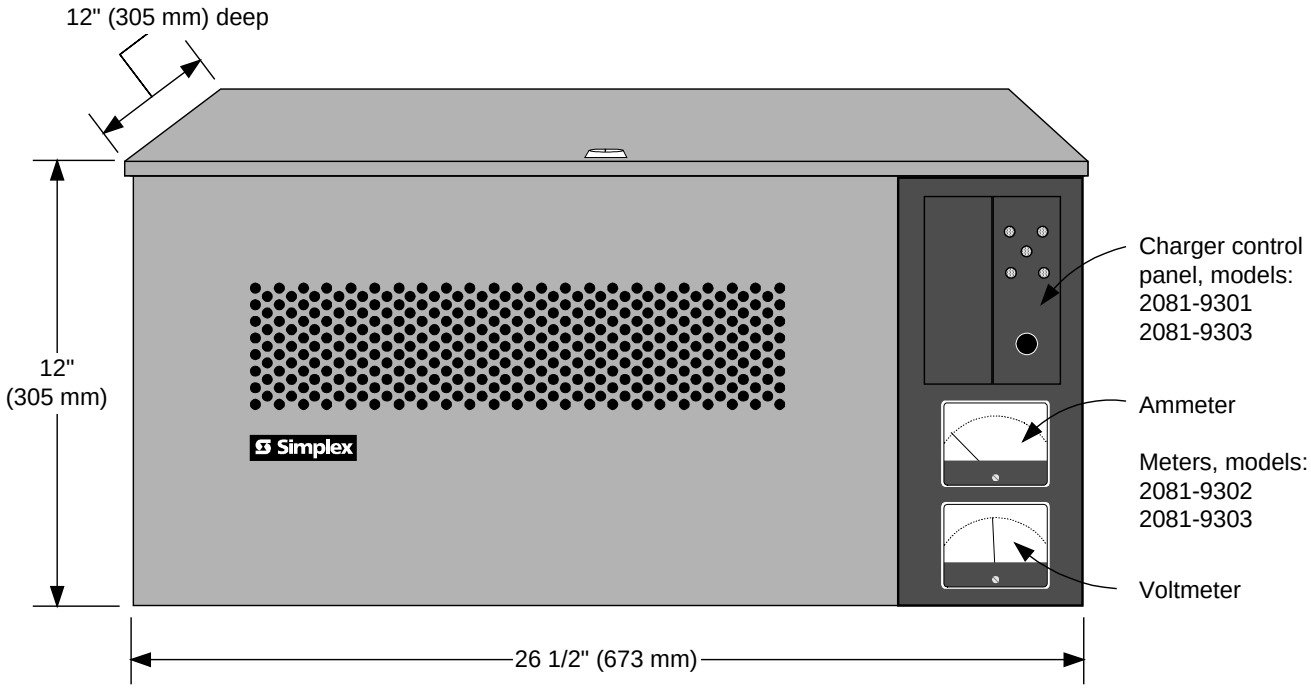
Optional NiCad battery charging. As an optional feature, the 2081-9305 charger board can be used with the 2081-9301 or 2081-9303 battery chargers for charging 20 cell Nickel Cadmium (NiCad) batteries. This option is a pluggable printed circuit board assembly that is easily field installed. (The 2081-9305 charger option is not UL listed.)

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Battery Charger Specifications, Models 2081-9301 and 2081-9303

General Specifications		
Input Requirements	700 mA maximum @120 VAC, 50/60 Hz	
	350 mA maximum @ 240 VAC, 50/60 Hz	
High Rate Charge Current	2 A typical, fused at 3 A, fuse accessible at charger control panel	
Standby Current (during power failure)	2 mA	
High Rate Indicator	LED (Red)	Mounted on charger control panel
Charger Failure Indicator	LED (Yellow)	
Charger On Indicator	LED (Green)	
Battery Voltage Test Points	Accessible at charger control panel, 0.08” (0.020 mm) diameter	
Charger Specifications, Lead-Acid Batteries		
Maximum Float Maintenance Current	150 mA, exact value dependent on specific battery characteristics	
Float Voltage	27.5 VDC nominal	
High Rate Turn-On	26 VDC typical	
High Rate Transfer to Float Rate	29 VDC typical	
Charger Specification, NiCad Batteries, Requires 2081-9305 Charger Board		
Maximum Float Maintenance Current	50 mA, exact value dependent on specific battery characteristics	
Float Voltage	28.4 VDC nominal	
High Rate Turn-On	27 VDC typical	
High Rate Transfer to Float Rate	31 VDC typical	

DIMENSION REFERENCE



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All specifications and other information shown were current as of printing and are subject to change without notice.