

Battery Pack Rack Charger

INSTALLATION GUIDE



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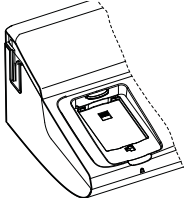
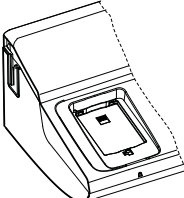
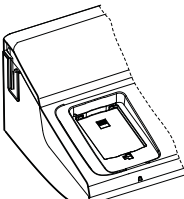
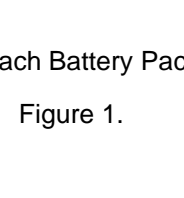
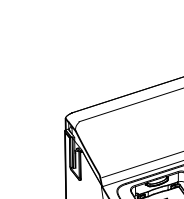
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1. INTRODUCTION

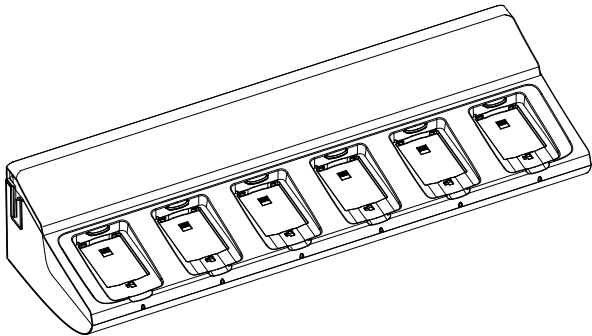
This document describes how to install and operate the CR4 Battery Pack Chargers. It charges battery for the DT69x, DT413, DT423, Mitel 5604, 6707, 5624, and Mitel 5614.

Table 1. Variants of the Battery Pack Charger.

Charging slot design	Item. No.	Charges handset batteries for:
	BML351 071/1	DT690 DT692
	51015430	Mitel 5604 Mitel 5624
	50006899	Mitel 5614
	87L00009AAA	DT413 DT423
	51301130	Mitel 5607

Each Battery Pack Charger charges six batteries simultaneously.

Figure 1.



Battery Pack Charger

Supply voltage: 100-240VAC/0.7A 50/60 Hz
Building fuse for fixed installation: 10 A max.

Single Unit

The Battery Pack Charger can be installed as a single unit.

Multiple Units

A number of Battery Pack Chargers and Charging Racks may be connected together. Maximum five units may be connected. An installation with multiple units requires a fixed electrical installation.

NOTE: In the USA and Canada the Battery Pack Charger must only be installed as a single unit. Connection of several units is not permitted.

1.1 SAFETY

- It is not allowed to supply more than one unit by the power cord with the C14 connector.
- The safety covers on top of the supply voltage terminal blocks must be mounted to prevent hazardous situations, like electric shock.
- When servicing the unit, the power cord must be disconnected.
- For permanently connected equipment, a readily accessible disconnect device shall be incorporated in the building installation wiring. The disconnect device shall disconnect both poles.
- For pluggable equipment, the wall outlet shall be installed near the equipment and shall be easily accessible.

In Sweden, Norway and Finland the unit must be connected to protective earth (safety grounding). For other countries it is recommended to use a protective earth connection.

- Suomi: Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.
- Norge: Apparatet må tilkoples jordet stikkontakt.
- Sverige: Apparaten skall anslutas till jordat uttag.

1.2 NOTICE TO EUROPEAN CUSTOMERS

The CE marking affixed to Mitel products indicates conformance to the R&TTE directive 99/05/EC (Radio and Telecommunications Terminal Equipment Directive). As of June 13th, 2017 R&TTE directive 1999/CE is replaced by EMC 2014/30/EU.

For a copy of the original signed Declaration (in full conformance with EN45014), please contact your Mitel office or Sales partner.



1.3 REGULATORY COMPLIANCE STATEMENTS (USA AND CANADA ONLY)

FCC Compliance Statements for USA

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide

reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver

IC Requirements for Canada

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la Classe B conforme à la norme NMB-003 du Canada.

2. INSTALLATION

- A fixed electrical installation must be done by an authorized electrician.
- Maximum five units may be connected in a fixed electrical installation.
- The unit shall be placed in a dry environment with a temperature range from +5° C to + 40° C (41° F to 104° F).
- The unit can be mounted to a vertical wall (concrete or plaster walls only) or be placed on table if table adapters are used.
- Avoid mounting the unit in a sunlit place. This can affect the charging capacity.

Delivery Includes

- Battery Pack Charger
- Power cord including IEC C14 connector (male)
- Inlet accessory kit, including cable support holders and screws
- Table adapters

NOTE: An extension cord IEC C13 AC connector ((Female, IEC60320-C13) to wall socket has to be ordered separately. It shall be connected between the pre-installed IEC C14 AC connector (male) and the wall socket.

Required Tools etc.

- Screwdrivers
- Cutting pliers
- Multimeter
- Screws and wall plugs for wall mounting.

Make sure the screws and wall plugs have the correct length for the type of wall used.

Table 2. Example of plug and screw dimensions.

Wall material	Plug length	Screw diameter
Single plasterboard	Thorsman TP1	3.5 – 5 mm
Double plasterboard	Thorsman TP2	3.5 – 5 mm
Concrete	Thorsman TP2	3.5 – 5 mm

2.1 WALL MOUNTING

Follow these steps when mounting a Battery Pack Charger to a wall:

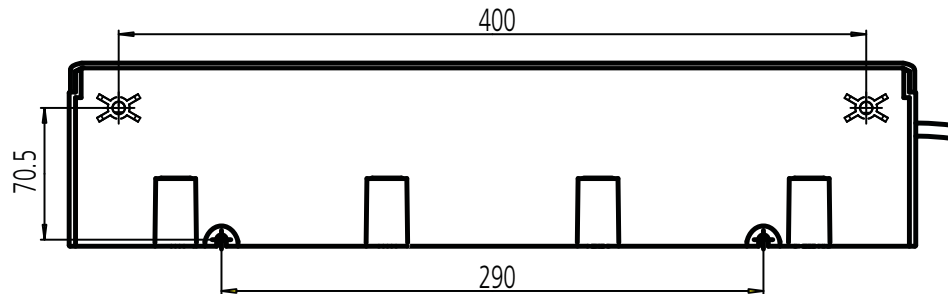
- 1 First, make an outline of how the units are to be placed.

If several Battery Pack Chargers (or Charging Racks) are to be mounted close to each other, mount them so that there is enough space between them to be able to disconnect the batteries or the handsets (vertical distance) and to be able to open the top cover (horizontal distance).

When you are planning the location of the units, start to mount them in a height that makes it easy to reach the batteries.

- 2 Measure and mark the drill holes by using the dimensions in [figure 2](#).
- 3 Drill and fasten the unit to the wall with four screws.

Figure 2.

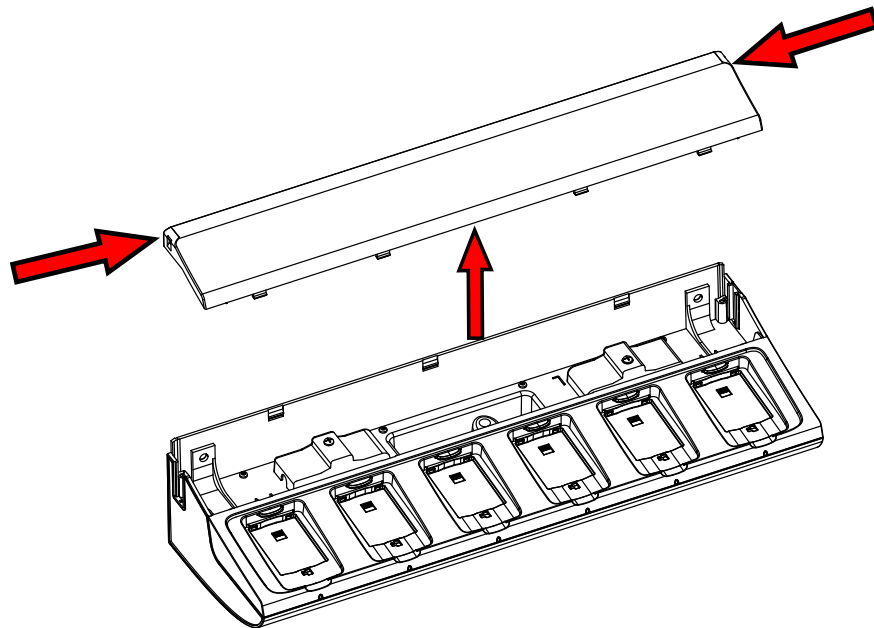


Mounting dimensions in mm. CR seen from the back.

2.1.1 REMOVE THE TOP COVER

Remove the top cover by first pressing on the sides of the top cover, then lifting it upwards.

Figure 3.



Removing the top cover of the Battery Pack Charger.

2.2 PLACING ON A TABLE

If the Battery Pack Charger shall be placed on table, use the table adapters included in the delivery as follows:

- 1 Mount the two table adapters in the two outer holes in the bottom cover of the Battery Pack Charger as shown in [figure 4](#) on page 8.

- 2 Mount the four rubber feet as shown in [figure 4](#) on page 8.

Figure 4. Mounting of table adapters and rubber feet.

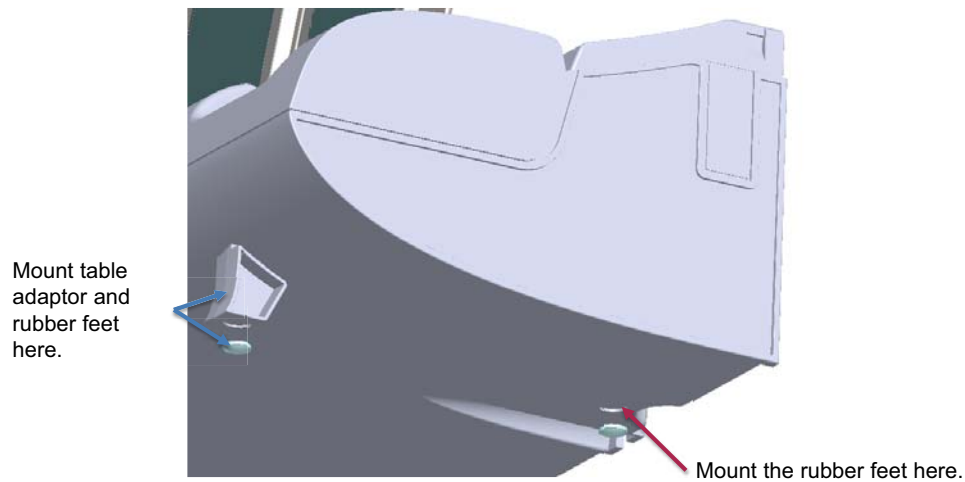


Figure 5. Battery Pack Charger with table adapters.

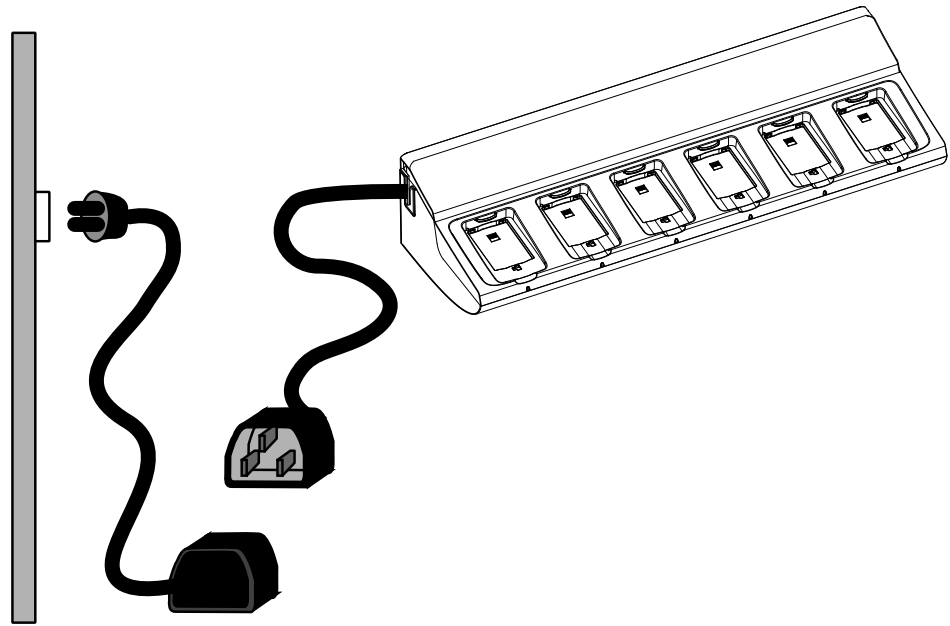


2.3 ELECTRICAL INSTALLATION

2.3.1 INSTALL SINGLE UNIT

IMPORTANT: It is not allowed to supply more than one unit by the power cord with the C14 connector.

Figure 6.



CR with IEC C14 connector and an extension cord with an IEC C13 connector.

Test Installation

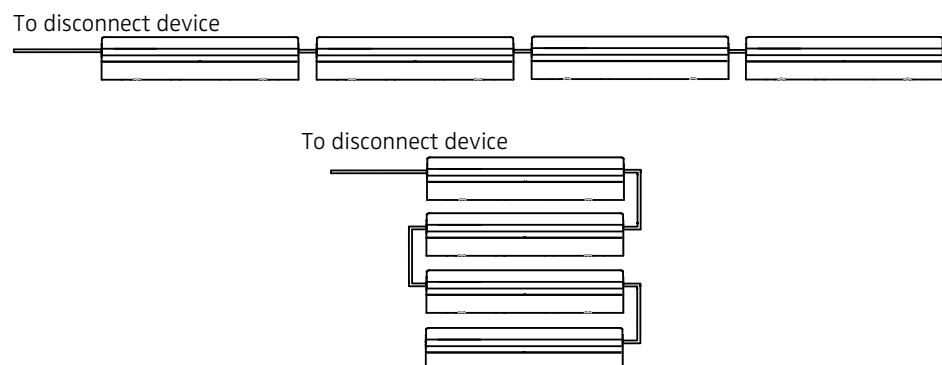
- 1 Connect the power cord to the wall outlet.
- 2 Place a battery in the charging slot.
- 3 An amber LED indicates charging while a green LED indicates a fully charged battery.

2.3.2 INSTALL MULTIPLE UNITS

NOTE: Maximum five units may be connected in a fixed electrical installation.

Any of the two terminal blocks can be used for AC input. The other is then used to connect the next unit.

Figure 7.



Units mounted and connected in a fixed installation (example).

Install First Unit

To install the first unit:

- 1 Remove the C14 connector from the power cord.
- 2 Measure, cut and strip the power cord.
- 3 Connect the power cord to the disconnect device.

The IEC color code is used in the power cord supplied.

Table 3. Wiring color codes.

IEC	US	Old ^a	Load	Also called
Brown	Black	Red	Active	Line, Hot
Blue	White	Black	Neutral	Return, Cold, Grounded connector
Gr/Ye ^b	Green	Green	Earth	Ground, Safety Earth, Earth Ground, Grounding conductor ^c

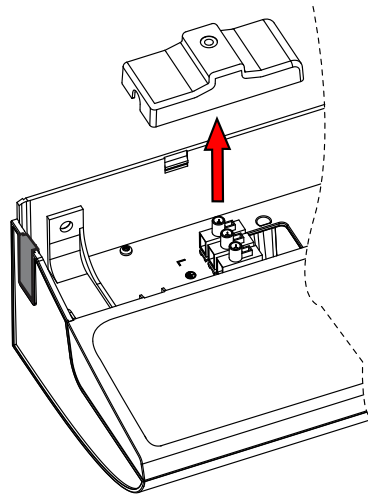
a. The "Old" standard was used in various countries (including Australia), and some wiring may still use these colours.

b. Gr/Ye - Green with Yellow stripe - this is the standard world wide, although it is not common in the US or Canada at present.

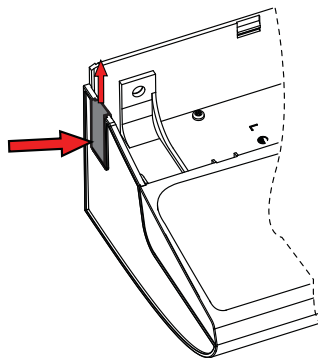
c. There is an important distinction between "Grounding conductor" (safety earth) and "Grounded conductor" (Neutral). These are US terms for the conductors and they are not interchangeable, despite the similarity of the names !

Install Additional Unit

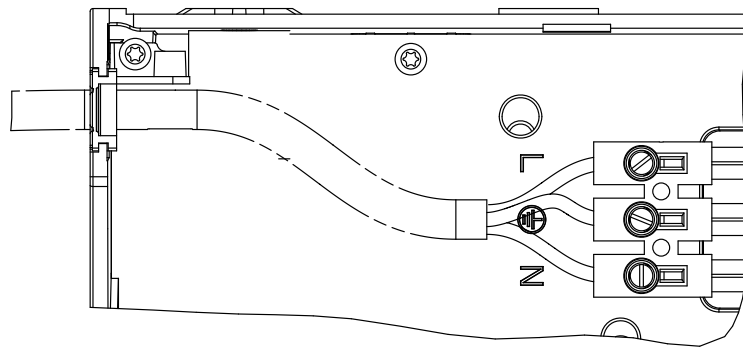
- 1 Mount the additional unit to the wall.
- 2 Remove the top cover from the previous unit.
- 3 Remove the safety cover from the unused terminal block.



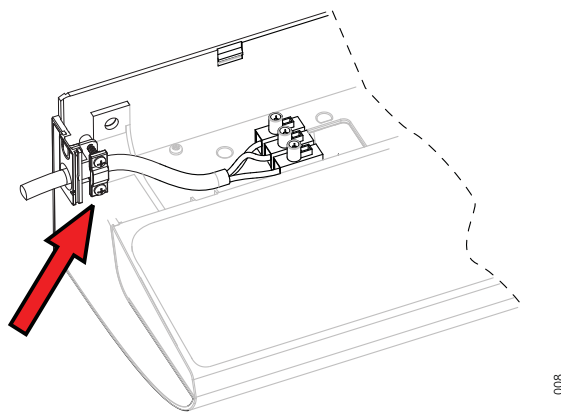
- 4 Mount the cable support holder at the unused opening on the previous unit. The cable support holder is provided in the parts bag.



- 5 Remove the C14 connector from the additional unit.
- 6 Cut and strip the power cord to the length required.
- 7 Run the power cord through the cable support holder of the previous unit.
- 8 Connect the power cord of the additional unit to the unused terminal block in the previous unit.
Note the embossed markings L, earth symbol and N.



- 9 Secure the power cord with two screws, which are provided in the parts bag.



- 10 Mount the safety cover and fasten it with one screw.
11 Replace the top cover.
12 Fasten the power cord to the wall depending on local regulations.
13 Repeat the same steps to install additional units.

Test Installation

- 1 When the fixed installation is completed, apply AC power by switching on the disconnect device.
2 Place a battery in the charging slot.
3 A yellow LED indicates that charging starts while a green LED indicates a fully charged battery.

3. OPERATION

When the charger is connected to external power supply, normal operation is done as follows:

3.1 CHARGING

- 1 Connect the charger to the AC power supply.
- 2 Place a battery in the charging slot to start charging. Secure the battery by moving the lock switch.

3.2 BATTERY DISCONNECTION

- 1 Unlock the lock switch on the battery.
- 2 Remove the battery by lifting it.

4. TROUBLESHOOTING

Fault

Charging does not start

Solution

Check that the battery is properly inserted in the charger.

Check the AC power supply connection.