	No.: 98-50899-00	Rev: B
	Date: November 6, 2023	Authorization #:
Title : Micro-Link® 5 Smart Battery Charger P/N : 07-00614-00	Supersedes:	Page: 1 of 4

Micro-Link® 5 Smart Battery Charger Instructions.

Tools Required:

- DC power adaptor, Output: 12VDC, 5A. (Purchase local)
 - ⚠ Adapter must be equipped with surge protection.
 - ⚠ Cable Length may not exceed 3m.
- ML5 battery 79-66081-20/79-66085-20

Polarity of DC Plug



Female Barrel Plug connector
2.5mm x 5.5mm



Package Content:

Item	Description	Part Number	Quantity
1	Micro-Link® 5 Smart Battery Charger	07-00614-00	1
2	Instruction Manual	98-50899-00	QR code on packaging

This instruction should be read through completely before proceeding.

- Remove the ML5 battery from the unit or shipping packaging.**
- Connect the ML5 battery to the Battery Charger:**
 - Connect the DC power adaptor to the DC power jack of the battery Charger (see figure 1).
 - Connect the ML5 Battery to an available battery charger slot (see figure 1).

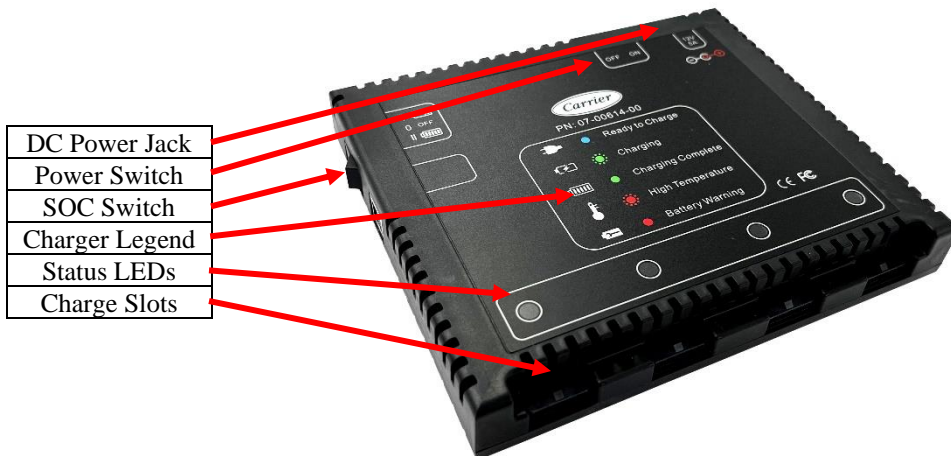



Figure 1. Functional Overview

Used On: Micro-Link® 5 Smart Battery 79-66081-20/79-66085-20	Prepared By: Randy Heijmans	Approved By: Perry Hoover	Date: 11/2023
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	No.: 98-50899-00	Rev: B
	Date: November 6, 2023	Authorization #:
Title : Micro-Link® 5 Smart Battery Charger P/N : 07-00614-00	Supersedes:	Page: 2 of 4

c. Select the desired State of charge (SOC) *30%, Off, *100% using the SOC switch shown in figure 1, referencing the table below for expected duration.

* Note that the selected SOC state will be set for all 4 battery charger slots

d. Switch on the battery charger using the power switch shown in figure 1, the battery charger will visually show the state it is currently in.

Battery PN:	Initial SOC %	SOC State	Est. Duration (hrs)
79-66081-02/20 (Standard Battery)	0% > 30%	Charging	1
	30% > 100%	Charging	2
	100% > 30%	Discharging	4
79-66085-02/20 (High-Capacity Battery)	0% > 30%	Charging	1.75
	30% > 100%	Charging	4
	100% > 30%	Discharging	7.5

Note: Battery management system on the ML5 battery will limit current to 1A max.


3. Unplug and pack charged battery.

- Power off and unplug charged battery.
- Mark and record the charge date and SOC (%) on the box label or battery.
Example: Recharged to 100%, date code 0323 (MMYY, Mar 2023)



Marked Label

Used On: Micro-Link® 5 Smart Battery 79-66081-20/79-66085-20	Prepared By: Randy Heijmans	Approved By: Perry Hoover	Date: 11/2023
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	No.: 98-50899-00	Rev: B
	Date: November 6, 2023	Authorization #:
Title : Micro-Link® 5 Smart Battery Charger P/N : 07-00614-00	Supersedes:	Page: 3 of 4

- c. Return battery to box for storage or install the battery on unit directly.
- d. Battery recommended to be charged after months in storage thereafter,

	Storage life at		Safety Under Voltage (SUV)
	30% SOC	100% SOC	
79-66081-02/20	~7.5 months	~17 months	>1 year, SOC 30%
79-66085-02/20	~15 months	~34 months	>2 years, SOC 30%

Battery may be in SUV status and deemed faulty if it was stored longer than as shown on table.

Note: per international shipping regulations, standalone batteries cannot be shipped with SOC greater than 30%

SOC Switch Positions




Position	Description
Up	(Dis)charge all battery packs to a low charge
Middle	Standby mode. No (dis)charge operations.
Down	Charge all battery packs to a full charge

LED Indications



LED Behavior	Description
Blue Solid	Ready to charge. Connect battery pack.
Green Blinking	Connected battery pack is (dis)charging.
Green Solid	Connected battery pack finished (dis)charging.
Red Blinking	High temperature detected. Operations adjusted accordingly.
Red Solid	Operational failure detected. Operations adjusted accordingly.

Used On: Micro-Link® 5 Smart Battery 79-66081-20/79-66085-20	Prepared By: Randy Heijmans	Approved By: Perry Hoover	Date: 11/2023
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	No.: 98-50899-00	Rev: B
	Date: November 6, 2023	Authorization #:
Title : Micro-Link® 5 Smart Battery Charger P/N : 07-00614-00	Supersedes:	Page: 4 of 4

Power Supply Specifications

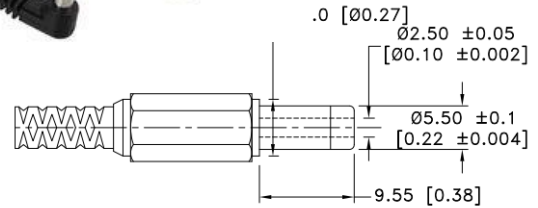
A power supply adapter is not enclosed with the battery charger.
Below are the specifications that must be met to power the battery charger.

Connector Type: Barrel Plug, 2.5mm x 5.5mm
Output Voltage 12VDC
Output Current, Min. 5A



Important Notes:

- ⚠ The adapter must be equipped with surge protection.
- ⚠ The cable length of the adapter must not exceed 3m.



Adapter Examples

Manufacturer	MFG P/N
CUI	SDI65-12-U-P6
Mean Well inc.	GST60A12-P1M
XP Power	VEC65US12
Tiger Power Supplies	TP1121

Operational Specifications

It is advised to use the Battery Charger in a cooled office/warehouse environment.
The Battery Charger is not designed for outdoor use.

Recommended Ambient Temperature Range : 0 °C ~ 30 °C
Maximum Temperature Threshold (Alarm) : 75 °C

Used On: Micro-Link® 5 Smart Battery 79-66081-20/79-66085-20	Prepared By: Randy Heijmans	Approved By: Perry Hoover	Date: 11/2023
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