TECHNICAL DATA SHEET

MULTI-BAY BATTERY GANG CHARGER

ORDER CODE: GC-100
PRODUCT CATEGORY: ACCESSORIES

Modular Power and Charging for Always-On Monitoring.

PRODUCT OVERVIEW

General Description

E4A's Multi-Bay Gang Charger is a high-performance charging and power management solution designed for E4A BP-100R rechargeable battery packs. Beyond charging multiple packs, it can be directly integrated with E4A wireless sensor devices, acting as an extended power module that dramatically extends sensor runtime and minimizes the need for frequent battery replacements in the field.

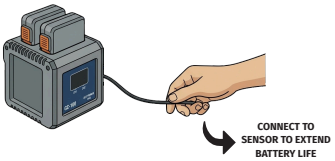
For scalable deployments, multiple GC-100 units can be linked together via USB-C ports to increase overall charging and power capacity. This makes the system highly adaptable and ideal for powering larger industrial sensor networks, ensuring continuous, reliable monitoring across critical assets.

MODULAR SYSTEM CONFIGURATIONS

STEP 1

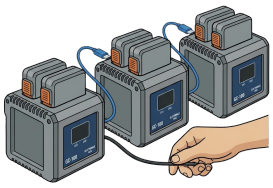
Insert one or two fully charged BP-100 or BP-100R batteries into the GC-100 gang charger unit.

CONFIGURATION 1



Utilizing USB, connect the GC-100 power module to a compatible E4A wireless sensor device.

CONFIGURATION 2



Cascade multiple GC-100 units via USB and connect to a compatible E4A wireless sensor device.

TECHNICAL SPECIFICATIONS

Power

USB-C Output	5V 1.5A
USB-C Input	Input USB Power Delivery (PD) 3.0
Supported Power Delivery Profiles	5V 3A, 9V 3A
Battery Pack Input Voltage Range	1.80VDC to 4.20VDC
Battery Pack Charge Voltage	4.20VDC
Battery Pack Charge Current	500mA, 1.5A, 3A (Level Set by USB PD)
Typical Current Consumption	200µA (USB not connected)

Environmental

Operating Temperature	-20°C to 60°C (USB output only) -0°C to 45°C During battery recharge operation
Permissible Humidity	20% to 85% Operation and storage
Ingress Protection	IP30
Pollution Degree	2
Altitude	2000 m

Physical Characteristics

Housing Material	Flame Retardant Polycarbonate/ABS
Physical Dimensions	Height: 110mm / 4.3inch Width: 100mm / 3.9inch Depth: 116.5mm / 4.6inch
Weight	422g (without battery packs) 825g (with 2 BP-100 battery packs) 844g (with 2 BP-100R battery packs)

User Interface

LCD Display	Graphic LCD 1.28", 128x128 resolution
Display Contents	Power input Battery ID (BP-100 and BP-100R automatically detected) Battery capacity (% remaining) No battery inserted Battery fault indication

PRODUCT CERTIFICATIONS

Safety Standards CAN/CSA C22.2 No. 62368-1:19
UL 62368-1:Ed.3, 2019(R2021)

SCAN HERE!

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