

# Operation Manual

## Battery Charger **PB-6207**



\* Rack mount products in the Western Hemisphere(North America, South America, and the Caribbean) do not have handles installed due to customer preference.

**interM**

# Welcome

## A personal welcome to you from the management and employees of Inter-M

All of the co-workers here at Inter-M are dedicated to providing excellent products with inherently good value, and we are delighted you have purchased one of our products.

We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

Welcome to Inter-M, and thank you for becoming part of our worldwide extended family!



## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

\*WARNING FOR YOUR PROTECTION PLEASE READ THE FOLLOWING-WATER AND MOISTURE: Unit should not be used near water(e.g. near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc). Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

\*Do not install this equipment in a confined space such as a book case or similar unit.

\*This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

\*This apparatus shall be connected to a mains socket outlet with a protective earthing connection.

\*It has to be easy to disconnect the device. To disconnect the device from power, separate AC input cable from inlet or unplug the AC Cord.

\*The socket-outlet shall be installed near the equipment and shall be easily accessible.

## CAUTION

\*These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

## NOTE

\*This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying the appliance.

Caution: To prevent electric shock do not use this (polarized) plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

Attentions: Pour prévenir les chocs électriques ne pas utiliser cette fiche polarisée avec un prolongateur, une prise de courant ou une autre sortie de courant, sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.

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## Unpacking

Although your PB-6207 is neither complicated nor difficult to operate, we recommend you take a few minutes to read this brief manual and familiarize yourself with the important information regarding product features, setup and operation.

As with most electronic devices, we strongly recommend you to retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

## Installation

### Environment

Never place this product in an environment which could alter its performance or reduce its service life. Such environments usually include high levels of heat, dust, moisture, and vibration.

## IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



## Features

### - AUTOMATIC CHARGING

Up to Max. 3A will be charged, and if it is closed to full charging voltage (26.4V), current will be decreased to 10~20mA to maintain the charging status when it is fully charged.

### - VOLT/AMPERE METER

Voltage and current of battery will be checked through front LED display.

### - MONITORING CHARGING STATUS

The status of charging voltage and current can be monitored through Windows programs.

## Operating Method

1. Check the power voltage, then connect it to power socket.
2. Connect 24V battery to the battery input terminal of the device, and push the power switch to turn it on.
3. If power is supplied, power LED will be on, and charging voltage/current status of battery will be shown on the front display.
4. If battery connected to the device is dead, it will not be charged.

## Equipment Setting and Checking

### 1. Address Setting

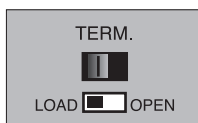


- 1) Set the equipment numbers for each deciding condition using the rear panel DIP switch.
  - If the equipment number is not set-up or is incorrect, 'id err' is displayed on the LED segment.
  - If the number is already in-use, the system will not function properly.
  - Please check the equipment number set-up status. (can be expanded up to 20 equipments)
- 2) Setting should be as table below, and if data number is added to switch which is On, it will be the equipment number.

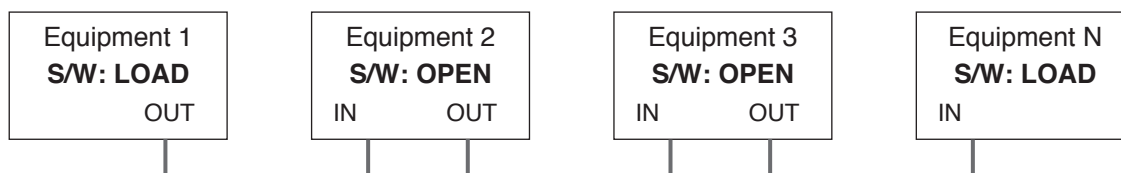
Pin No.		1	2	3	4	5
Data		1	2	4	8	16
Address	1	ON				
	2		ON			
	3	ON	ON			
	4			ON		
	5	ON		ON		
	┆	┆	┆	┆	┆	┆
	15	ON	ON	ON	ON	
	16					ON
	┆	┆	┆	┆	┆	┆

(Ex: when number 1 and 3 is ON, 1 and 4 is added, so equipment number will be 5.)

### 2. TERMINATION Switch (LOAD/OPEN) Setting

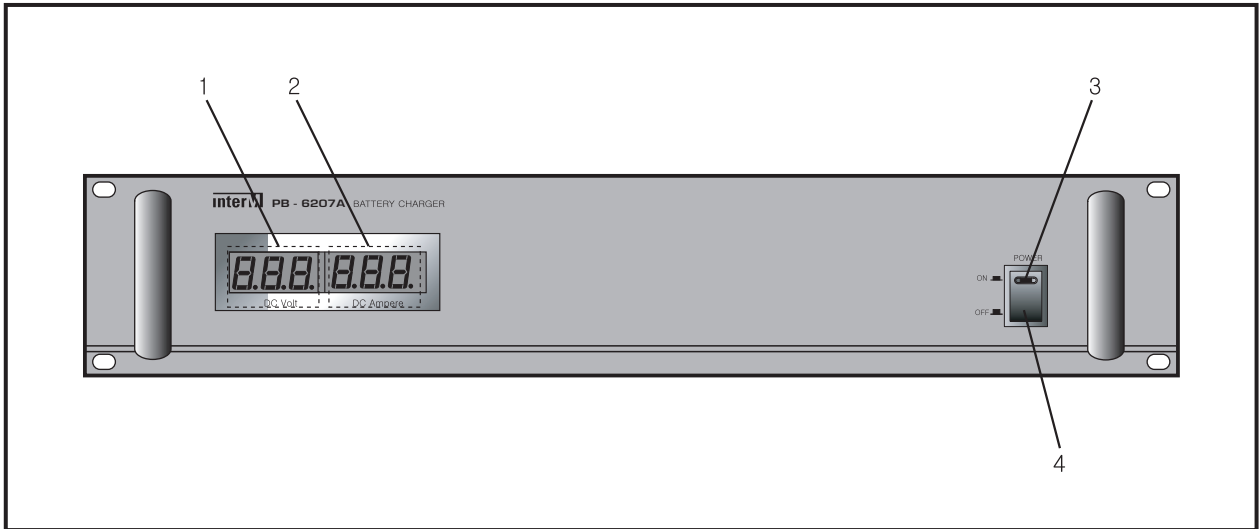


- 1) For the system linked by using RS-485 communication interface, it is necessary to set the termination switch (LOAD/OPEN) on the rear panel to stabilize data transfer.
- 2) Set the termination switch to LOAD only for the first and last-numbered equipment units. All others must be set to OPEN.



※ Caution: Communication error may occur if setting is performed incorrectly.

## Front Panel



### 1. VOLT METER

It is the window displaying the charging voltage of battery, and charging voltage will be displayed normally only if battery is connected.

※ If no battery is connected, it will be displayed as '---'.

### 2. AMPERE METER

It is the window displaying the charging current of battery, and charging current will be displayed normally only if battery is connected.

※ If no battery is connected, it will be displayed as '---'.

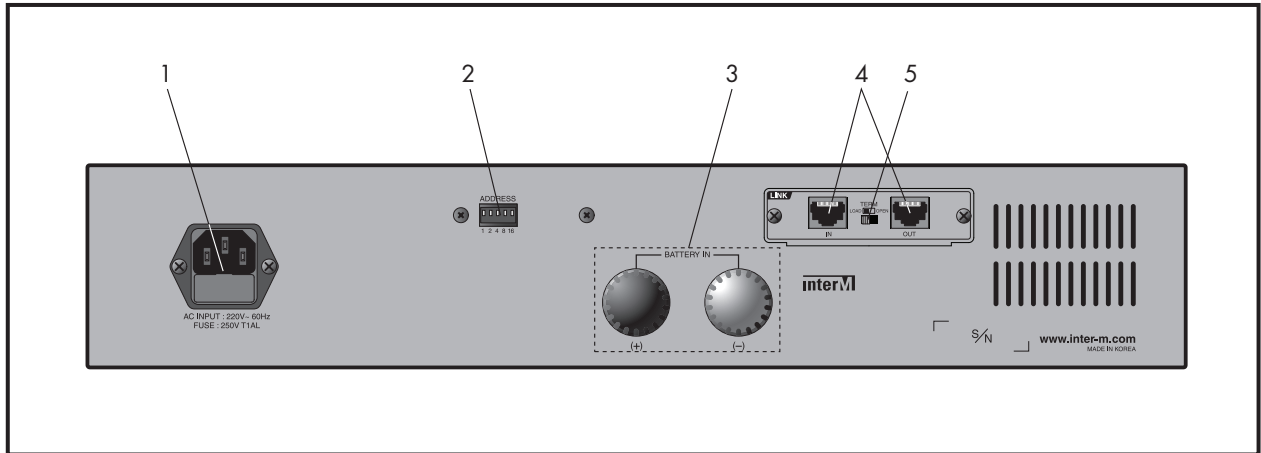
### 3. POWER LED

It is LED displaying power ON/OFF status.

### 4. POWER SWITCH

It is power ON/OFF button.

## Rear Panel



### 1. AC POWER INPUT TERMINAL

It is the terminal connecting power cord.

There is AC power fuse if you open the fuse cap, and confirm the rating and use the same capacity product when replacing it.

### 2. ADDRESS SETTING SWITCH

It is the switch which set up the device number.

For details of equipment setting, please refer to page 4.

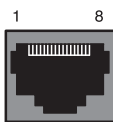
### 3. BATTERY CONNECTING TERMINAL (BATTERY IN)

It is the terminal which connects and charges the battery. Caution to polarities when it connects.

### 4. LINK IN/OUT TERMINAL

It is the communication terminal to monitor the line check result from PC.

Link in is connected to the previous device, and Link out is connected to the next device.



PIN NO.	Functions
1	RS-485 Data - A
2	RS-485 Data - B
3	RS-485 Data - Z
4	NA
5	GND
6	RS-485 Data - Y
7	NA
8	NA

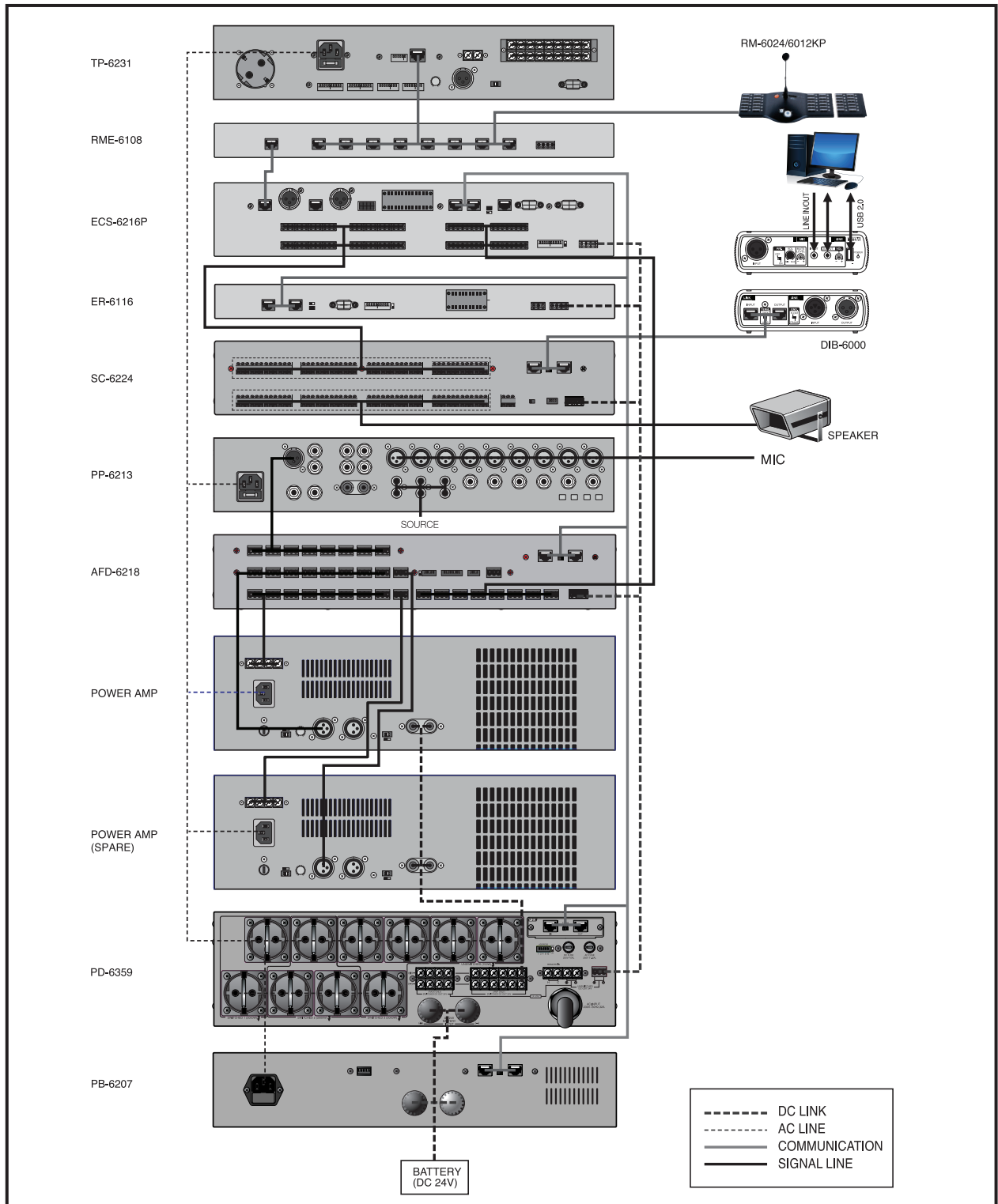
※ Same for all IN/OUT terminals.

**5. TERMINATION SWITCH (LOAD/OPEN)**

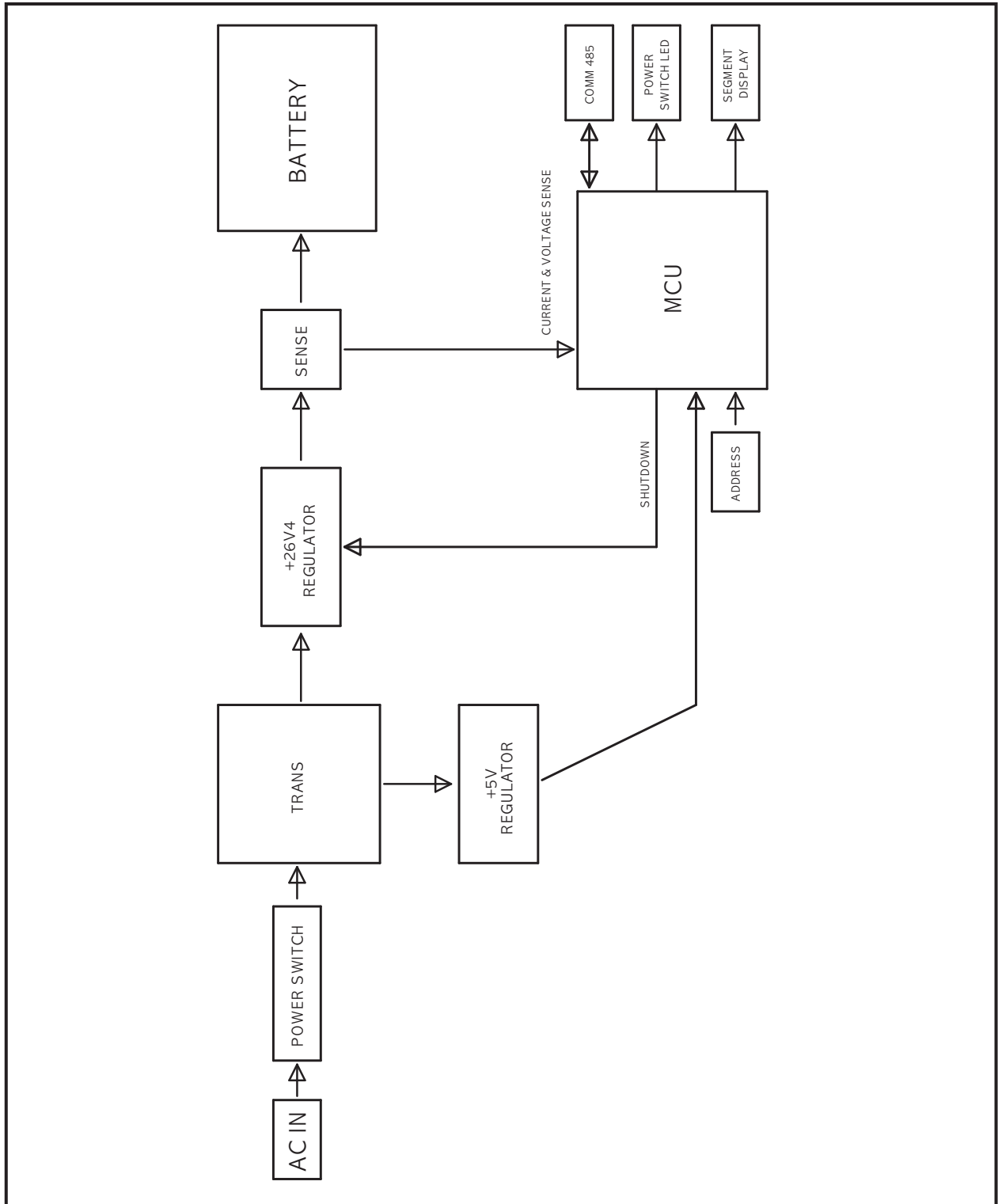
It is the switch which is set for stable data receiving/transmitting of link in/out.  
For details of equipment setting, please refer to page 4.

※ Caution: communication error may occur if it is not set correctly.

# Applications



## Block Diagram

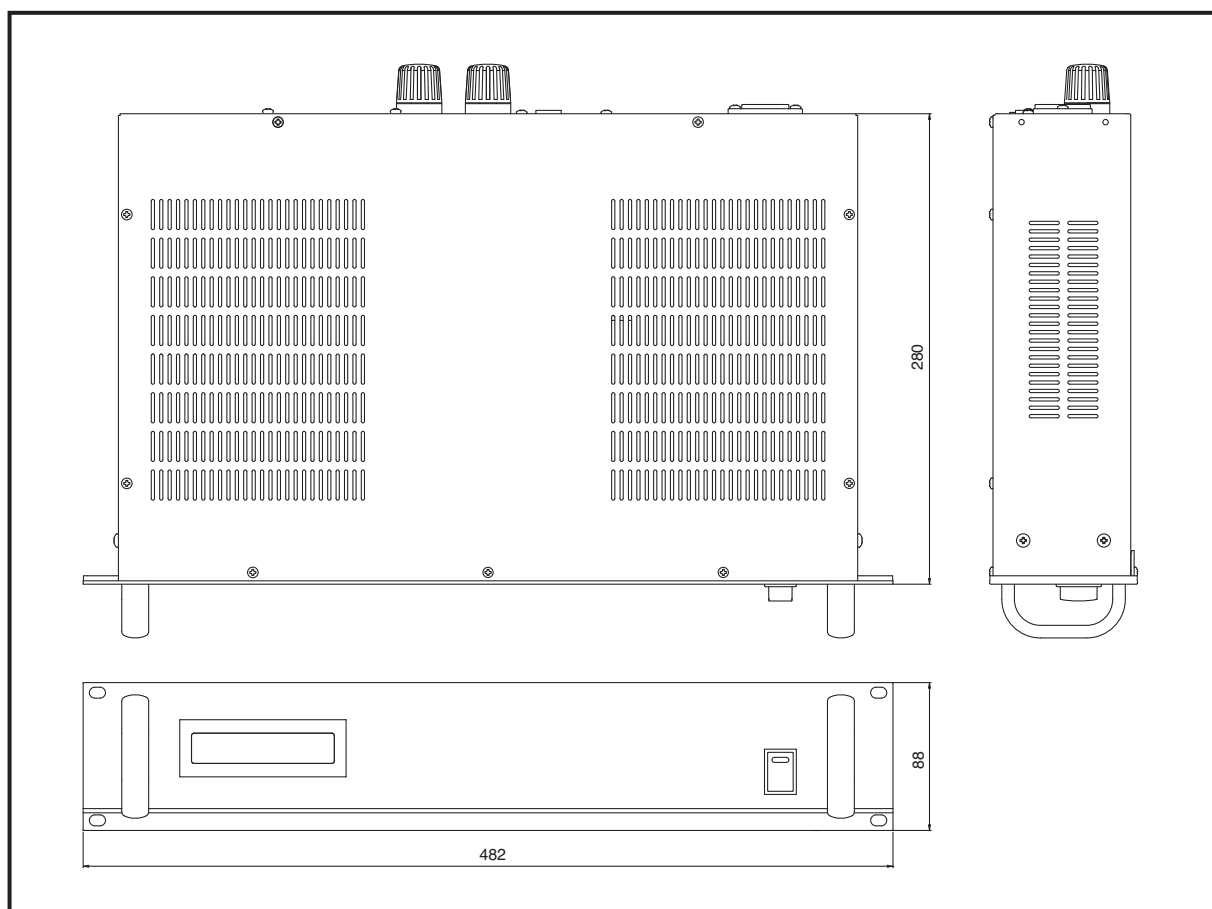


## Specifications

	PB-6207
Charge Complete Voltage	26.4V
Starting Current	3A MAX
Operation Temperature	-10°C ~ +40°C
Power Source	100-120VAC or 220-240VAC; 50/60Hz (Supplied AC mains transformer depends on country requirements)
Power Consumption	120W
Weight (SET)	6kg/13.2lb
Dimensions (SET)	482(W)x88(H)x280(D)mm/19(W)x3.5(H)x11(D)in

※ Specifications and design are subject to change without notice.

### ※ DIMENSIONS



## Service

### Procedures

Take steps to insure the problem is not related to operator error or other products within the system. Information provided in the troubleshooting portion of this manual may help with this process. Once it is certain that the problem is related to the product contact your warranty provider as described in the warranty section of this manual.

### Schematic

A Schematic is available by contacting your warranty provider.

### Parts List

A Parts List is available by contacting your warranty provider.

## Variations and Options

### Variations

Products supplied through legitimate sources are compatible with local AC power requirements.

### Options

No optional items are available for this product.

## Warranty

Warranty terms and conditions vary by country and may not be the same for all products. Terms and conditions of warranty for a given product may be determined first by locating the appropriate country which the product was purchased in, then by locating the product type.

To obtain specific warranty information and available service locations contact Inter-M directly or the authorized Inter-M Distributor for your specific country or region.







Inter-M, Ltd. (Korea) began operations in 1983.

Since then, Inter-M has grown to become one of the largest manufacturers of professional audio and commercial sound electronics equipment in the world.

Inter-M has gained worldwide recognition for its own branded products, as well as private label manufacturing of electronics sold under other names (OEM).

The company is no longer just a Korean company, but rather a global company that is truly international in scope, with factories and offices in Korea and China, and sales and marketing operations located in Japan, Europe, and the U.S.A.

With more than 850 employees around the globe, Inter-M is well-poised for further growth and expansion.

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