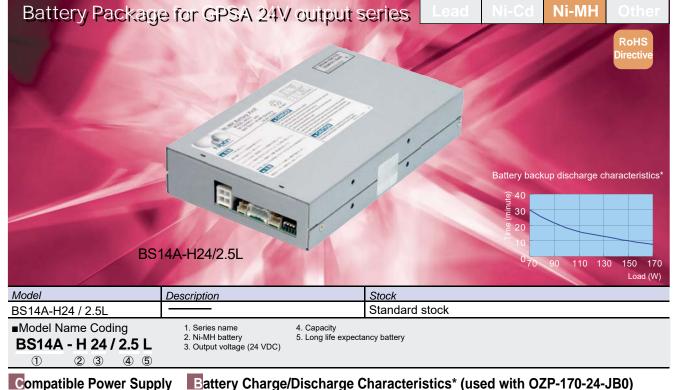
# Eattery Package BS14A-H24/2.5L



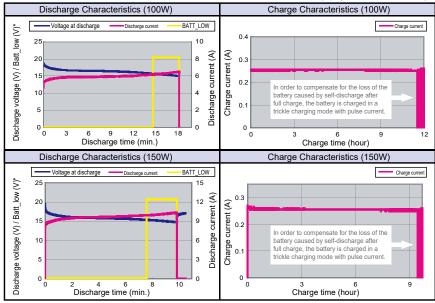
### **C**ompatible Power Supply

- OZP-120-24-\*B\*
- OZP-170-24-\*B\*
- GPSA-360-24-TP
- GPSA-600-24P-TP
- GPSA-750-24-TP
- mGPSA-360-24-TP

## Features

• Long life as Ni-MH battery is adopted. • With parallel connection function, multiple batteries can be connected in parallel when capacity is short. • Discharge halt by Dip switch is available.

## (Examples of actual measurem

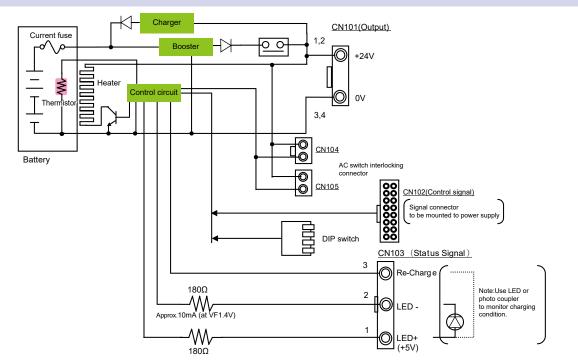


\* Battery voltage low signal with Open collector from connected power supply.
\* Be aware that it is a reference value at initial use of the battery package; it is not a guarar

#### Ceneral Specification Condition: at normal temperature and humidity unless otherwise specified

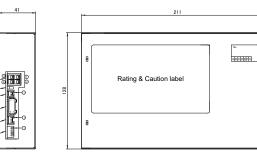
Items	Specification	Measurement conditions, etc.	
Battery	1.2V 2.5Ah × 14 connected in serial	Sealed Ni-MH battery	
Battery's Nominal Voltage	16.8 VDC		
Rated Capacity	2.5Ah		
Max. Output Capacity	Rated 170W (Peak 240W within 10 sec., the peak duty ratio 35% max.)	Average output power shall be within 170W	
Rated output voltage	24VDC	Voltage is adjustable by voltage adjustment variable resistor in the power supply to be connected. (Note. 1	
Charge Specification	0.25A typ. (15 hours typ.)	Timer charging method The output of connected power supply (24V) charges. (Note.2)	
Heater	The element operates at 20 deg. typical or lower , and stops at 22 deg. typical or higher of battery temperature. It also operates during 0 deg. to 20 deg. to maintain battery discharging characteristics in rating: Warm-up. The warm-up time is approx. one hour from 0 deg (Heater consumption power at operation: approx. 13W).	24V output voltage of connected power supply provides the power. (Note. 2)	
Embedded Fuse Rating	30A 32V		
Operating Temp. / Humidity	0 to 50°C / 10 to 90% RH	No condensation	
Storage Temp. / Humidity	1 year or less: less then -20 to 35°C / 10 to 95%, 6 months or less: -20 to 45°C / 10 to 95%, 1 month or less: -20 to 55°C / 10 to 95%, 1 week or less: -20 to 65°C / 10 to 95%	No condensation	
Weight	1.9 kg typ.		
Life Expectancy(Note 3)	Approx. 9 to 10 yrs. (5 times/year discharge), approx. 3 to 4 yrs. (1 time/day discharge)	Environmental temp. 30°C, 100W 3-minutes discharge at a time	
Warranty	1 year after delivery. If any faults belong to us, the defective unit shall be repaired or replaced at our cost. (Except for inside battery.)	Except for errors caused by operation not listed	

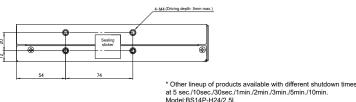
## **Block Diagram**



**Outline Drawing** 

1U/3U size

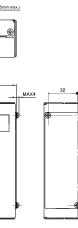




#### **Optional Components** Sold separately

Cable				
Туре				
Battery connection cable (signal cable)				
Battery connection cable (signal cable)				
Battery connection cable (power cable)				
Battery connection cable (power cable)				
Battery connection cable (power cable)				
D-sub harness with RS232C signal board (signal harness)				

(Note.3)Life expectancy is a reference value. It is not a guaranteed value





Pin	Input / output	Connector				
1	Batt +					
2	Batt +	Plug S04P-XI -HDB				
3	Batt -	(JST)				
4	Batt -					
CN103						
Pin	Input / output	Connector				
1	LED+	Plug				
2	LED-	S03B-XASK-13 (JST)				
3	Re-Charge	(351)				

CN102 (Please wire the controlled signal connector at power supply side.)

Note: In the case that AC switch is used, remove the short support subcr) and use CN104 so that CN104 goes short when AC switch is on, and CN104 goes open when AC switch is off. When AC switch is turned on or off without using CN104 with shorting connector, CN105, connected, backup operation starts. "Please note that backup function will be operated at applying CN505 and the AC switch is during connector in such without using the CN14, CN155 and the AC switch without using the CN14, CN155 and the AC switch

CN101

Dip switch setting; With DIP switch setting, back up time after AC fail can be set as in the chart below. (Setting time accuracy, ±10%. At shipping configuration, the pattern shall be 16: discharge cut-off voltage.

Mode	1	2	3	4	Discharge setting time
1	1	1	1	1	1 min.
2	0	1	1	1	5 min.
3	1	0	1	1	10 min.
4	0	0	1	1	15 min.
5	1	1	0	1	20 min.
6	0	1	0	1	25 min.
7	1	0	0	1	30 min.
8	0	0	0	1	35 min.
9	1	1	1	0	
10	0	1	1	0	
11	1	0	1	0	
12	0	0	1	0	To dischartge
13	1	1	0	0	cut-off voltage
14	0	1	0	0	
15	1	0	0	0	
16	0	0	0	0	

1: Swich ON, 0: Swich OFF

Signal harness to be connected to a power supply. Signal harness to be connected to a power supply. (for two battery packages in parallel connection) Power harness to be connected to a power supply. Power harness to be connected to a power supply. (Two harnesses are used in the parallel connection of two battery packages) Power harness to be connected to a power supply (for two battery packages in parallel connection).

Signal output is possible by RS232C signal.