

Battery Package BS17A-H24/2.0L

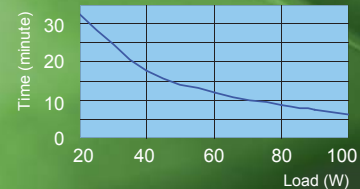
3.5-inch Bay Fixed Type Ni-MH Battery

Lead	Ni-Cd	Ni-MH	Other
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RoHS
Directive



Battery backup discharge characteristics
Be aware that it is a reference value at initial use of the battery package; it is not a guaranteed value.



Model	Description	Stock
BP17A-H24/2.0L		Standard stock

Model Name Coding
BS17 A - H 24 / 2.0 L
 ① ② ③ ④ ⑤ ⑥

1. Series name	4. Output voltage (24 VDC)
2. Modification code	5. Capacity
3. Ni-MH battery	6. Long life expectancy battery

Compatible Power Supply

PCFL-180P-X2S2	p.359
PCFD-180P-X2S	p.367

Features

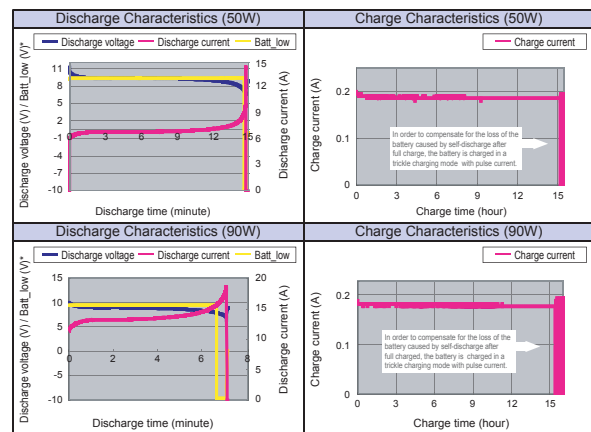
- Ni-MH battery package for fanless power supplies (PCFL-180P-X2S2 and PCFD-180P-X2S).
- Small-scale size that can be fixed to 3.5-inch bay
- With various input/output signals (RS232C signal), BATT OPERATE (AC FAIL), BATT LOW, and SHUT DOWN, it deals with automatic shutdown at blackout.

It can be customized to correspond to TTL signal. Consult with us.
Model: BS17A-H24/2.0L-T

Note: This battery package is for standby use. If it is used for cycle use, its life span may be shortened. Consult with us if you wish to use it for cycle use.

Battery Charge/Discharge Characteristics (used with PCFL-180P-X2S2)

Be aware that it is a reference value at initial use of the battery package; it is not a guaranteed value. (Examples of actual measurement)



* Battery low voltage signal for RS232C(BATT_LOW_R)

General Specification Condition: at normal temperature and humidity unless otherwise specified

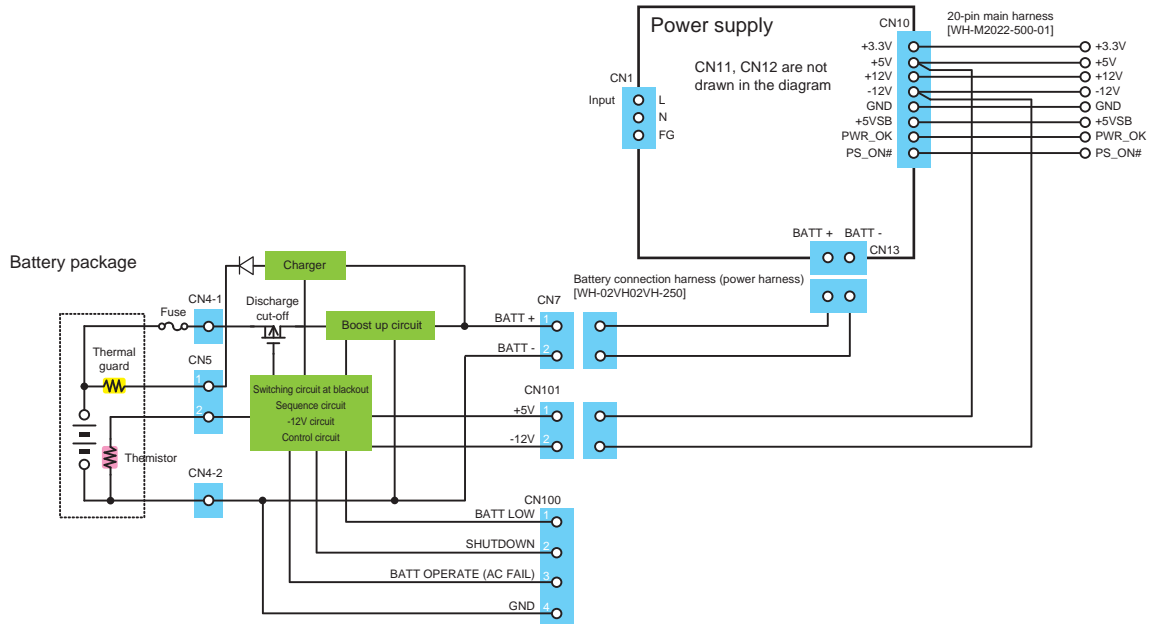
Items	Specification	Measurement condition, etc.
Battery	12V 1.8Ah × 8 connected in serial	Sealed Ni-MH battery
Nominal Battery Voltage	9.6 VDC	
Rated Capacity	1.8Ah	
Rated Output Capacity	97.2W (18V 5.4A)	
Charge Specification	0.2A typ. (15 hours max. typ.)	
Embedded Fuse Rating	30A 32V	Do not replace fuse.
Embedded Boosting Circuit Voltage	18V typ.	Output terminal voltage of the battery package
Discharge Cut-Off Voltage	6.4V to 7.2V	To prevent over-discharge of the battery, battery discharge is forcibly shut down with battery voltage monitoring circuit.
Operating Temp. / Humidity	0 to 45°C / 10 to 90%	Derate the power to 80% of the rated output at 0°C (100% of the rated output can be gained at or above 10°C).
Storage Temp. / Humidity	1 year or less: less than -20 to 30°C / 10 to 95%, 3 months or less: -20 to 40°C / 10 to 90% 1 month or less: -20 to 50°C / 10 to 95%	No condensation
Weight	900g typ.	
Life Expectancy*	Approx. 3 to 4 yrs. (5 time/day discharge)	Environmental temp. 30°C, 50W 3-minute 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 malfunction caused by over-discharge.	Except for errors caused by operation not listed in the specification.

*Life expectancy is a reference value. It is not a guaranteed value.

Signal Input / Output Specification Condition: at normal temperature and humidity unless otherwise specified Sold separately

	Item	Specification
Input	SHUT DOWN_R	At 'positive input voltage', battery connection is shutdown (60ms min.) (only available at backup operation). Range of 'positive input voltage': +3V to +25V
Output	BATT OPERATE_R (AC FAIL)	At battery backup operation, 'negative voltage' signal is delivered. Range of 'negative output voltage': -5V to -15V (detection delay time: 5ms min. after battery backup, only available at battery backup operation).
	BATT LOW_R	When the battery terminal voltage decreases to 7.2V to 8.0V, 'negative voltage' signal is delivered (only available at AC operation or battery backup operation). Range of 'negative output voltage': -5V to -15V

Block Diagram



Outline Drawing

3.5-inch bay fixed type

CN7
Model: B2PS-VH (JST)
Material Base: Nylon66 UV94V-0
Post: Tinning with brass/copper underlayer

Pin	Input / output	Mating connector
1	Batt +	Housing VHR-2 (JST)
2	Batt -	

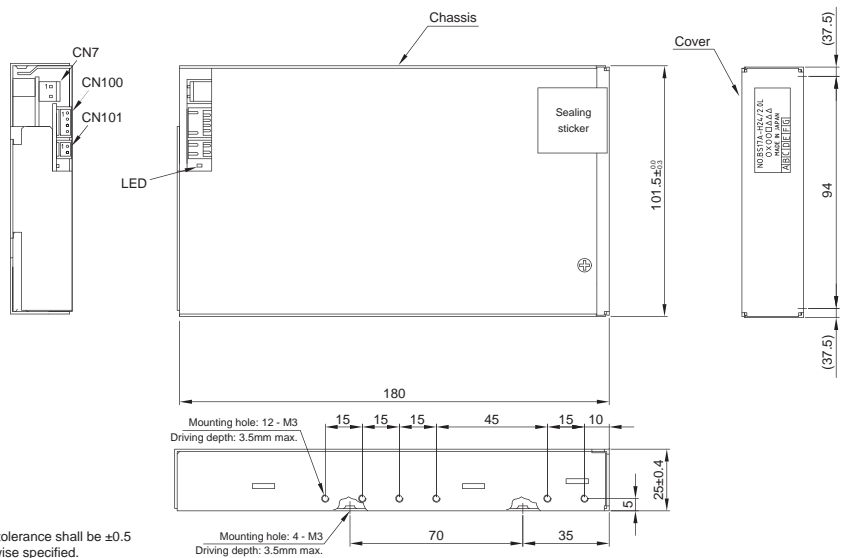
CN100
Model: S4B-PH-SM4-TB (JST)
Material Base: Nylon66 UL94V-0
Post: Tinning with copper alloy/brass underlayer

Pin	Input / output	Mating connector
1	Batt LOW	Housing PHR-4 (JST)
2	SHUTDOWN	
3	Batt operate (AC FAIL)	
4	GND	

CN101
Model: S2B-PH-SM4-TB (JST)
Material Base: Nylon66 UL94V-0
Post: Tinning with copper alloy/brass underlayer

Pin	Input / output	Mating connector
1	5V input	Housing PHR-2 (JST)
2	-12V output	

Dimensional tolerance shall be ± 0.5 unless otherwise specified.



Optional Components Sold separately

Cable Model	Type	Description
WH-M2022-500-01	Main power cable (20-pin)	Connect the diverging 2-pin connector to the battery package.
WH-02VH02VH-250	Battery connection cable (power cable)	Signal harness to be connected to a power supply.
WH-S1004-500	SIG cable	COM port connector type (Refer to p.363, p.371 for details.)
WH-S1004-500-01	SIG cable	COM port connector type (Refer to p.363, p.371 for details.)
WH-S0604-500	SIG cable	6-pin connector type
WH-CO4PH-500	SIG cable	Semi-stripping