

Product Specification

Model <div style="text-align: center; font-size: 1.2em; font-weight: bold;">BS25A-H350/2.5L</div>	Created: February 17th, 2017 Dept. Tokyo Technical Center
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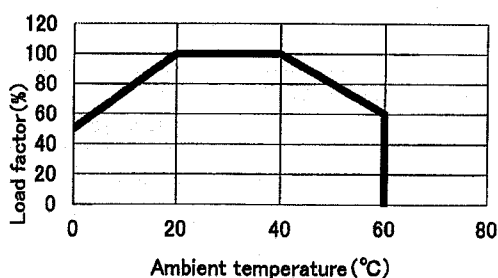
Scope

This specification applies to Model BS25A-H350/2.5L.
 This product is Battery Package to back up optional DC stabilized power supplies at blackout.

General specification (All item are provided at normal temperature and humidity unless otherwise specified)

	Items	Specification and Standard	Measurement condition etc.
Electrical	Battery	1.2V 2500mAh ×14 cells in series×3	Sealed Ni-MH battery
	Nominal Battery Voltage	DC16.8V×3	
	Rated Capacity	2500mAh	10 Hour Rate
	Max. Output power	700W	
	Output voltage of booster circuit	350V	
	Battery condition before shipment	91% min. of the rated capacity	
	Charging specification	0.25A typ. (15hours max.)	
	Built-in Fuse rating	30A 125V min.	
Environment	Operating Temp./Humidity	0~60°C/20~90%	No condensation. When ambient temp. is 20°C or less, and exceeds 40°C, follow the derating curve below to reduce output power.
	Storage Temp./Humidity	Within One year storage : -20 to lower than 35°C/10~95% Within Six months storage : -20 to lower than 45°C/10~95% Within One month storage : -20 to lower than 55°C/10~95% Within One week storage : -20 to lower than 65°C/10~95%	
	Vibration	To endure the vibration acceleration of 2G with vibration frequency of 10 to 55Hz for 10 minutes in each X-Y-Z direction.	JIS-C-60068-2-6 At no operation with the normal packaging
	Mechanical Shock	Lift one bottom edge up to 50mm and let it fall. Number of bumps:3 each of 4 edges. There shall be no malfunction observed.	JIS-C-60068-2-31 At no operation with the normal packaging
Others	Insulation resistance	50MΩ or more between output and chassis	At 500VDC
	Dielectric strength	AC1.5kV for one minute between output and chassis.	Cut-off current 10mA
	Dimensions	146(W)×82(H)×200(D)	Except protrusions; Refer to the outline drawing in another
	Weight	4.0 kg typ.	
	Reliability Grade	FA	To follow our standard
	Expectancy life time	9 to 10 years at discharge five times per year	At 30°C 300W Three minutes per a discharge
	Storage condition	Re-charging once at least per year is required for six months or longer storage.	
Warranty	One year after delivery. However, if any faults belong to us, the defective unit shall be repaired or replacement at our cost except the defect caused by	Except any defects caused by the operation out of the specification.	

Output derating vs Ambient temperature



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Yodo	Mori	Chino	6190-01-4-520	1 / 3

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Connector pin assignment

Connector Name	Pin No.	Function	Note
Connector for dedicated Battery Package connection	1	Battery_output +	
	2	Battery_output -	
	3	AC input detection signal	
	4	-	
	5	-	
	6	on/off detection signal	

Connector Name	Pin No.	Function	Note
Back-up Signal Connector	1	Reserved	
	2	GND	
	3	AC FAIL	
	4	SHUT DOWN	
	5	BATT LOW	
	6	Reserved	

Connector Name	Pin No.	Function	Note
OPT.Connector	1	Reserved	
	2	Reserved	
	3	Reserved	

※ This battery package is not support Hot-swapping.



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Precautions before use

⚠ Hazard

<Dismantlement>

Never dismantle the battery package as the electrolyte inside is strong alkaline and it may damage your skin and clothes. In particular, when it is caught in your eyes, you may lose your sight. In case the electrolyte should be caught in your eyes by accident during dismantlement, immediately wash your eyes with clean water and see your doctor. Do not rub your eyes. Also, when dismantled, its electrodes may catch fire reacting to oxygen in the air.
Never dismantle the battery package!

<Short Circuit>

Do not touch the terminal area of the battery package or PCB portion with metal pieces or metal bars. It may damage the equipment or generate heat of the battery resulting in burn injury.

<Throwing into a fire and Heating >

Never throw the battery package into a fire or heat it up. It may cause the explosion of the battery or scatter of the electrolyte.

<Installation in equipments>

In installing the battery package in equipments, never seal it. In some cases, it may generate gas (oxygen and hydrogen) to cause explosion or fire ignited by spark of switches and/or motors. Besides, there might be the same danger generated even installed in the open structure because of positional relation between gas clump and flash source. Provide degassing holes or block off the ignition sources, such as motors and switches, in a proper way.

<Insert and eject a connector>

Dangerous-potentials exist inside connector this battery package connect with power supply. Make sure to insertion and extraction of connectors should be done after the power supply shut down completely. The residual voltage of the unit inside may cause damage to device or electric shock.

⚠ Warning

<Grounding>

This unit is designed and manufactured as Class I equipment. For safety, make sure to connect the earthing terminal to the ground before use.

<Usage to other devices>

Do not use the battery package for other equipments or applications. It may damage the battery or equipments as the specification varies.

<Placing into water and Water leakage>

Do not sink or wet the battery with water or seawater. As it may generate heat of battery or cause rust resulting in malfunction of the battery.



⚠ Caution

<Others>

In addition, regarding the items that are not described in this specification, use the battery package in a proper way at your responsibility following the general instructions on sealed Ni-MH batteries. Pay attention not to operate wrong as it may cause electrolyte leakage, heat and explosion of the battery to damage operators or other personnel.

Drawn by Yodo	Checked by <i>Mori</i>	Approved by <i>Ono</i>	Drawing No. 6 1 9 0 - 0 1 - 4 - 5 2 0	Sheet No. 3 / 3
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