

Buffer Unit

S8T-DCBU-02

for power management control

Advanced Industrial Automation

The S8T-DCBU-02 is a buffer block that is designed to prevent interruptions in equipment operation, loss of data or other problems resulting from a momentary power loss. It does this by providing a back-up power source as well as a shut-down time off process for at least 500ms (at 2.5A) to 1s (at 1A) in the event of a glitch or transient interruptions in the power supply. Up to four of these buffer blocks can be connected in parallel to increase the back-up time and current handling capacity.

The S8T-DCBU-02 can be used with all of Omron's power supplies, and is one of the most cost-efficient ways of protecting your system!



S8VS



S8TS



S82K



S82J



S8PS



S8PE

OMRON



Specification data

	S8T-DCBU-02
Input voltage	24 to 28VDC
Output voltage (current)	22V (at 24V input); 25.8V (at 28V input)
Back-up time	1,000ms/1A; 500ms/2.5A
Parallel operation	Yes (up to 4 blocks for longer back-up time and higher current)
Connection to power supplies	Can be wired to the 24V output of: S8VS, S82J, S82K, S8PS and S8PE power supplies. Connects to S8TS via S8T-BUS03 bus line connector (not included)
Charge source	Built-in electrolytic capacitor
Dimensions (W x H x D)	43x120x120 mm
Applications	Suitable for use in momentary power failures

The S8T-DCBU-02 can be wired to the 24V output of any of Omron's S8VS, S82J, S82K, S8PS and S8PE power supplies. In addition, it is designed to connect to Omron's S8TS in a simple click-on action via the S8T-BUS03 bus connector. It provides indicators (READY and Back-up) for easy status checking, along with alarm outputs. Easy to install and maintenance-free, the very reliable S8T-DCBU-02 complies with the SEMI F47-0200 standard.

How it works

The S8T-DCBU-02 buffer block accumulates energy in built-in electrolytic capacitors that act as a temporary power source during a power failure. Once a voltage drop is detected on the power supply to which it is connected, the buffer block's capacitors discharge their energy to the load. When the power supply recovers, these capacitors start recharging.

Built-in protection

The S8T-DCBU-02 has both over-current and over-voltage protection circuits to protect equipment against damage caused by shorts and overloads. The over-current protection circuit activates when an over-current is detected, and reduces the output voltage. The over-voltage protection circuit operates by switching off the output voltage when the input or output voltage values are exceeded. This buffer block is also protected when the positive and negative I/O terminals are inadvertently connected in reverse.

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