

Battery Power Unit

BPU SERIES

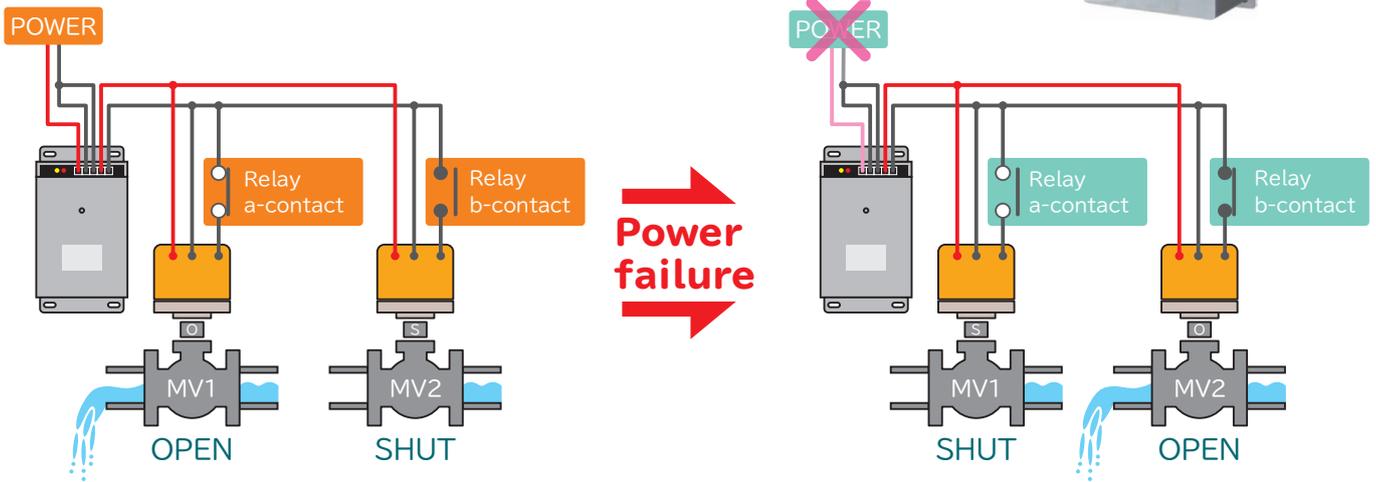
For DC-powered actuators.

Preventing secondary disasters after a power failure.

Just one unit !
 Maximum 96 units*
 Emergency action.



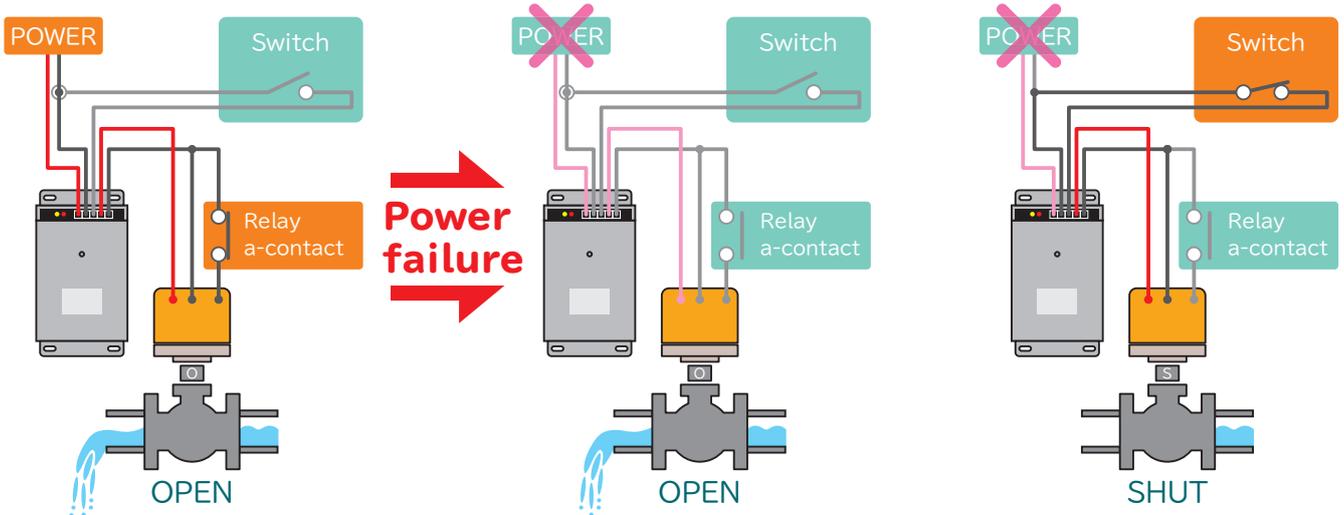
Emergency operation mode



Outputs the input power through a diode and fuse. Simultaneously trickle charge the internal battery.

In the event of a power failure, the BPU immediately outputs power from the built-in battery. When the power is lost, the a-contact relay of MV1 is turned off and the electric valve is closed by battery power. The b-contact relay of MV2 loses power and the electric valve is opened by battery power.

Standby mode



After a power failure, bpu will be placed on standby. The BPU can be on standby for up to 7 days.

When the external switch is turned on, battery power is output. At this time, the electric valve will operate closed because the operating relay that has lost power is in the OFF state (in the case of a contact).

Specification			
Model	BPU-12	BPU-25	
Rated output	120 VA 2min	288 VA 2min	
Battery capacity	12V / 2.5 Ah × 1	12V / 2.5 Ah × 2 = 24 V / 2.5 Ah	
Start up current	7 A MAX. 10 milliseconds at start up. 6 A MAX. 10seconds at operation.	18 A MAX. 10 milliseconds at start up. 15 A MAX. 10seconds at operation.	
Fuse	JIS B characteristics 5 A	JIS B characteristics 12 A	
Wire connection	Screw-type terminal block: M3	Screw-type terminal block: M4	
Power	24 V DC (+20 to -10%) or Full-wave 24 V DC The power type is set automatically. (*1)		
Built-in battery	Compact seal lead acid battery Expected life is 8 or 9 years. (*2)		
Standby time	Up to 7 days when full charged. (*3)		
Input signal current	10 mA (*4)		
Charging method	Constant voltage and current charging method with temperature compensation, 200 mA MAX.		
Charging time	approx. 24 hours. (*5) Up to 6 hours after open / close operation. (*3)		
Indicator	Red LED	Power: ON during power supply from input power or battery power output.	
	Yellow LED	Battery alarm: Flashes for 5 minutes when the output voltage is low during battery power output.	
Ambient temperature	-20 to 50°C (When charging), -40 to 50°C (When discharging)		
Mode (*6)	Normal operation	The input current is output to the electric actuator connected via a diode and fuse. During this time, the internal battery is trickle charged.	
	Power failure	Emergency	In the event of a power failure, the BPU immediately outputs power from the built-in battery. (*7)
		Standby	After a power failure, bpu will be placed on standby. If the input signal is input for more than 1 second, battery power is output for approx. 2 minutes. (*7)

*1: In normal operation, the input power is supplied directly to the electric actuator. If a full-wave rectified power supply is used, check the specifications of the electric actuator to be used.

*2: When used two to three times a year at 25° C.

*3: It depends on the usage environment.

*4: Use a contact that has no leakage current.

*5: When the ambient operating temperature is 25° C.

*6: If an a-contact (N.O.) relay is used to control an motorized valve, the motorized valve will be closed because the relay contacts are in the open state when the power failure. When a relay with a b-contact (N.C.) is used to control an electric valve, the relay contacts are in the closed state upon power failure and the valve will open.

*7: Pay attention to the operation time of the electric actuator used.

Number of units that can be operated simultaneously.				
Model	BPU-12		BPU-25	
24 V DC power model	CMX-015	40 units MAX.	CMX-015	96 units MAX.
	CMX-070	20 units MAX.	CMX-070	48 units MAX.
	CD2-030	12 units MAX.	CD2-030	28 units MAX.
	CD2-070	5 units MAX.	CD2-070	12 units MAX.
	PEX-120 / 300 / 700	2 units MAX.	PEX-120 / 300 / 700	5 units MAX.
24 V DC power model and Full-wave 24 V DC power model	DM2-030	12 units MAX.	DM2-030	28 units MAX.
	DM2-070 / 180 AE2-120 / 360	5 units MAX.	DM2-070 / 180 AE2-120 / 360	12 units MAX.
	AD2-300 / 700 PDX-300 / 700	1 units MAX.	AD2-300 / 700 PDX-300 / 700	3 units MAX.
	HD2 PHX PHR PDX-02K / 06K	1 units MAX.	HD2 PHX PHR PDX-02K / 06K	2 units MAX.



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