

DC/DC Converter Power Supply PWI-60D6D2



* Specifications, color and design of the products are subject to change without notice.

Features

Supports the voltage drops that occur when an engine starts

When an engine starts, the battery voltage drops and may remain at a low voltage for a fixed length of time. This product continues to provide the BOX-PC with a stable power supply even during this period of time.

Applicable models: BOX-PC BX-220 Series, BOX-PC BX-955S Series

BOX-PC BX-830 Series

BOX-PC BX-956S Series

*1: Use a consumption power of 24V/1.5A when performing cranking with the BX-956S Series.

Power supply monitoring utility software is available for managing the power supply to industrial equipment

The starting and shutting down of BOX-PCs can be linked to the operation of the ignition switch. BOX-PCs can be connected to this product by way of a serial or USB interface.

Supports a wide range of temperatures with operations guaranteed from -20 to 70°C *

Stable operations of this product are possible over a wide range of temperatures from -20 to 70°C.

* After checking the temperature derating, adjust the load factor to match the usage environment.

A USB cable attachment is available to prevent problems caused by cable disconnections

The USB cable attachment enables you to prevent disconnections of the included USB cable, which enables you to prevent problems from occurring.

Contributes to the miniaturization and weight reduction of equipment and supports front access

This product has a case size of 86 (W) × 155 (D) × 44 (H) mm and a weight of 650g. It supports front access, which makes maintenance easy to perform.

This product is a power supply unit that generates a stable power supply from a 12VDC or 24VDC car battery power supply.

Even though it has a compact, slitless case with dimensions of 86 (W) × 155 (D) × 44 (H) mm, it supports a wide range of temperatures from -20 to 70°C. This product can be used to protect computer systems from unstable power supply environments in which problems such as surges, voltage fluctuations, and instantaneous voltage drops occur randomly.

It is equipped with a separate power supply output for external devices other than a computer, so it can provide stable power to other devices in the same manner as the stable power that is provided to the PC.

If you install on your computer the utility software (which can be downloaded free of charge) for use in Windows, you can start and shut down the computer by linking to the ignition switch.

Specification

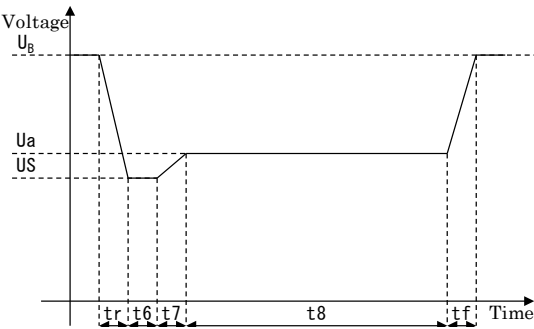
Function specification

Model		PWI-60D6D2
Power Specifications		
Rated input voltage		10.8 ~ 26.4V/DC (12V -10% ~ 24V +10%) (continuous input) *1*2
Range of input voltage		8 ~ 28V/DC (instantaneous input) *1*3
Input current upper limit		10A (Mini blade fuse)
Dark current		10.8V DC 3mA/ 26.4V DC 2mA
Rated output voltage		+24V/DC±5% *1*4
Rated output current		2.5 (Max) *5
Overcurrent protection		3.0A
Ambient specifications		
Operating temperature		Operating : -20 ~ +70DC *6 (See the temperature derating), Storage : -20 ~ +70DC
Storage temperature		Operating : 10 ~ 90%RH, Storage : 10 ~ 90%RH (No condensation)
Floating dust particles		Not to be excessive
Corrosive gases		None
Line-noise resistance	Line noise	DC line / □2kV, Signal line / □1kV (IEC61000-4-4 Level 3, EN61000-4-4 Level 3)
	Static electricity resistance	Contact discharge / □4kV (IEC61000-4-2 Level 2, EN61000-4-2 Level 2)
		Atmospheric discharge / □8kV (IEC61000-4-2 Level 3, EN61000-4-2 Level 3)
Vibration resistance	Sweep resistance	10 ~ 57Hz/semi-amplitude 0.375 mm 57 ~ 500Hz/5.0G 60 min. each in x, y, and z directions (JIS C60068-2-6compliant, IEC68-2-6-compliant)
Impact resistance		100G, half-sine shock for 6 ms in x, y, and z directions (JIS C60068-2-27-compliant, IEC60068-2-27-compliant)
Grounding		SG-FG / continuity
Other		
Physical dimensions (mm)		86(W) x 155(D) x 44(H) (Not including connector protrusions, No protrusions)
Weight		About 0.65kg
Standard		VCCI Class A, CE Marking (RoHS Directive), UKCA, ECE R10.05

*1: This is the voltage value of the power supply connector.

*2: If a voltage that is less than the minimum rated input voltage is applied for a certain period of time, the output voltage will be forcibly shut down.

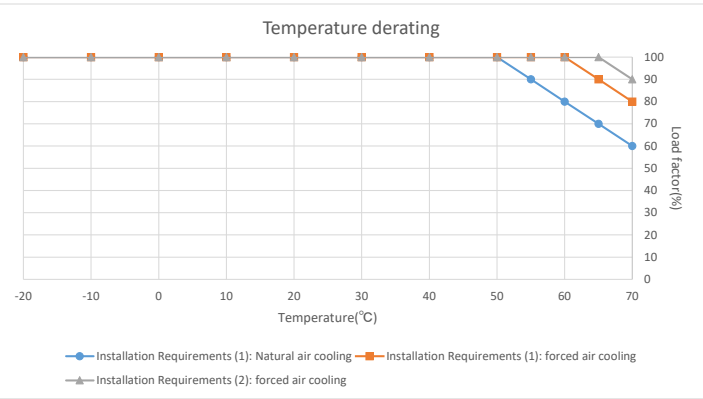
*3: The range of input voltage is the range over which voltage fluctuations caused by cranking are permitted.



Parameters	12V system	24V system
UB	12V	24V
US	8V	8V
Ua	8.6V	12V
tr	5ms	10ms
t6	40ms	100ms
t7	50ms	50ms
t8	20s	20s
tf	100ms	100ms

Cranking pulse

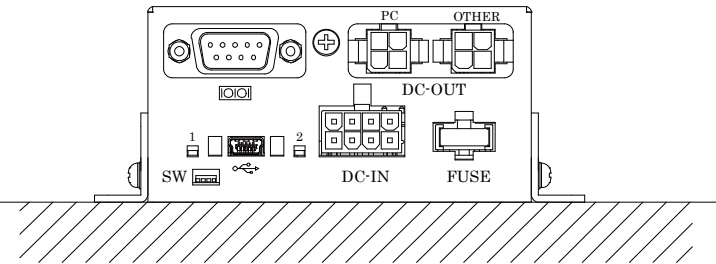
- *4: Use a power cable shorter than 3m.
- *5: Ensure that the total consumption current for the PC power supply output and the OTHER power supply output is 2.5A or less.
- *6: After checking the temperature derating shown below, adjust the load factor to match the usage environment. When operating the product with forced air cooling, use the product in an environment in which the entire product is subject to air blown at a speed of 0.5m/s.



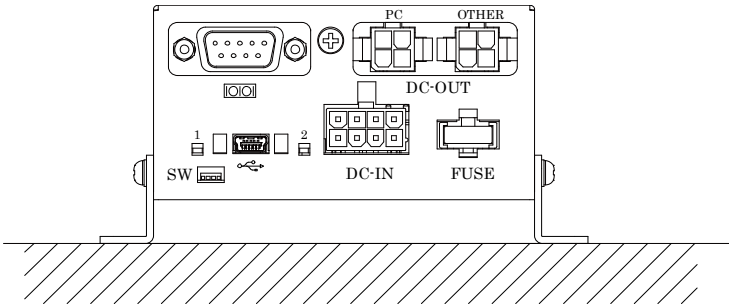
Temperature derating

Load factor

Installation Requirements (1): Natural air cooling, Installation Requirements (1): forced air cooling, Installation Requirements (2): forced air cooling



Installation Requirements (1)



Installation Requirements (2)

Packing List

- | | |
|-------------------------------------|---------------------------|
| BOX-PC ...1 | IPC Precaution List ...1 |
| The attachment fittings ... 2 | Warranty Certificate ...1 |
| Power supply connector complete set | Serial Number Label ...1 |
| Power Connector (4pin) ... 2 | |
| Power Connector (8pin) ... 2 | |
| Contact ... 1 | |
| USB Cable (1.8m)...1 | |
| USB Cable Attachment ...1 | |
| Product guide ...1 | |