

AC Input

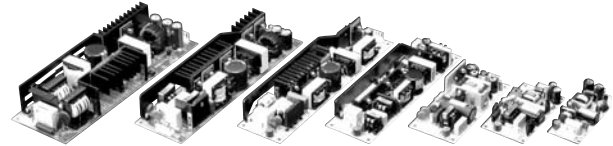
Conformity to RoHS Directive

Single Output, General-Purpose, UL/C-UL/TÜV Approved

J Series JBW(10 to 150W)

FEATURES

- Compact and low price.
- Wide input voltage range.
- Safety standards approved.
- Corresponds to products with CE marking.
- Full lineup of output power 10 to 150W
- Open frame
- Meets conducted noise standard FCC Class B.
- Warranty period: 3 years
- Specific bromine inflammable materials (PBDPEs, PBBs) are not included in use.
- It is a product conforming to RoHS directive.



APPLICATIONS

Measuring equipment, robotics, automation equipment, information processing equipment, security systems, amusement equipment, etc.

SAFETY STANDARDS

UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(TÜV), approved.

EMC REGULATIONS

- FCC Class-B, VCCI Class-B, EN-55011-B and EN55022-B meet.
- Harmonic current requirement EN61000-3-2 meet(50 to 150W).

PRODUCT IDENTIFICATION

| | | | |
|-----|-----|---|-----|
| JBW | 05 | - | 2R0 |
| (1) | (2) | | (3) |

(1)Series name

(2)Rated output voltage

(3)Rated output current(R: Decimal point)

PART NUMBERS AND RATINGS

| Output voltage (V) | 10W Type | | 15W Type | | 30W Type | | 50W Type | |
|-----------------------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|
| | Current(A) | Part No. | Current(A) | Part No. | Current(A) | Part No. | Current(A) | Part No. |
| 5 | 2 | JBW05-2R0 | 3 | JBW05-3R0 | 6 | JBW05-6R0 | 10 | JBW05-10R |
| 12 | 0.9 | JBW12-0R9 | 1.3 | JBW12-1R3 | 2.5 | JBW12-2R5 | 4.3 | JBW12-4R3 |
| 15 | 0.7 | JBW15-0R7 | 1 | JBW15-1R0 | 2 | JBW15-2R0 | 3.5 | JBW15-3R5 |
| 24 | 0.5 | JBW24-0R5 | 0.7 | JBW24-0R7 | 1.3 | JBW24-1R3 | 2.1 | JBW24-2R1 |

| Output voltage (V) | 75W Type | | 100W Type | | 150W Type | |
|-----------------------|------------|-----------|------------|-----------|------------|-----------|
| | Current(A) | Part No. | Current(A) | Part No. | Current(A) | Part No. |
| 5 | 15 | JBW05-15R | 20 | JBW05-20R | 30 | JBW05-30R |
| 12 | 6.3 | JBW12-6R3 | 8.5 | JBW12-8R5 | 12.5 | JBW12-12R |
| 15 | 5.0 | JBW15-5R0 | 6.7 | JBW15-6R7 | 10 | JBW15-10R |
| 24 | 3.2 | JBW24-3R2 | 4.3 | JBW24-4R3 | 6.3 | JBW24-6R3 |
| 48 | — | — | — | — | 3.2 | JBW48-3R2 |

- 3.3 and 48V models(75 to 150W type) are made to order.

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

• All specifications are subject to change without notice.

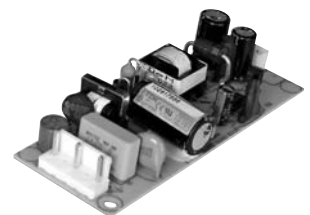
JBW10W Type

SPECIFICATIONS AND STANDARDS

| Part No. | JBW05-2R0 | JBW12-0R9 | JBW15-0R7 | JBW24-0R5 |
|---|--------------------|---|---|-----------------|
| Rated output voltage and current* | 5V • 2A | 12V • 0.9A | 15V • 0.7A | 24V • 0.5A |
| Maximum output power | W | 10 | 10.8 | 12 |
| Input conditions | | | | |
| Input voltage Eac/Edc | V | 85 to 265[Rating: 100 to 240]/110 to 370 | | |
| Input frequency | Hz | 47 to 440[Rating: 50 to 60](Single phase) | | |
| Input current | A | 0.25typ./0.35max. [AC.100V]0.15typ./0.25max.[AC.240V] | | |
| Fuse rating | A | 2[AC.250V, built-in] | | |
| Surge current | A | 15typ.(20max.)[AC.100V]30typ.(40max.)[AC.240V] 1st surge current, cold start, reset after 1s minimum. | | |
| Leakage current | mA | 0.1typ./0.75max.[AC.100V, 60Hz]0.15typ./0.75max.[AC.240V, 60Hz] | | |
| Power factor | | 0.6typ./0.45typ.[AC.100/240V] | | |
| Efficiency | % | 71typ.[AC.100V] | 78typ.[AC.100V] | 79typ.[AC.100V] |
| | % | 71typ.[AC.240V] | 79typ.[AC.240V] | 80typ.[AC.240V] |
| Output characteristics | | | | |
| Output voltage Edc | V | 5 | 12 | 15 |
| Voltage variable range Edc | V | Fixed | Fixed | Fixed |
| Maximum output current | A | 2 | 0.9 | 0.7 |
| Minimum output current | A | 0 | 0 | 0 |
| Overvoltage threshold Edc | V | 5.75min. | 13.8min. | 17.25min. |
| Overcurrent threshold | A | 2.5min. | 1.12min. | 0.87min. |
| Voltage stability | Source effect | % | 0.4max.[Within the input voltage range] | |
| | Load effect | % | 0.8max.[0 to 100% load] | |
| | Temperature effect | % | 1max.[Ambient temperature: -10 to +50°C] | |
| | Drift(Time effect) | % | 0.4max.[25°C, input and output ratings, after input voltage ON for 30min to 8h] | |
| | Recovery | % | ±4max.[50 to 100% sudden load change] | |
| Ripple Ep-p | mV | 80max. | 120max. | 120max. |
| Ripple noise Ep-p | mV | 120max. | 150max. | 150max. |
| Start up time | ms | 700max.(200typ.)/700max.(200typ.) [AC.100/240V] | | |
| Hold up time | ms | 15typ/140typ [AC.100/240V] | | |
| Auxiliary functions | | | | |
| Indicator display | | No | | |
| Overvoltage protection | | Zenor diode clamp method, output may latch up depending on the condition. | | |
| Overcurrent protection | | Fold back type, automatic recovery. | | |
| Remote ON-OFF | | No | | |
| Remote sensing | | No | | |
| Parallel operation | | Impossible | | |
| Series operation | | Impossible | | |
| Output voltage external variable function | | No | | |
| Standards | | | | |
| Safety standards | | UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(TÜV) approved. | | |
| Noise terminal voltage | | FCC-B, VCCI-B, EN55011-B, EN55022-B meet. | | |
| Input harmonics current requirement | | No | | |
| Constructions | | | | |
| External dimensions | mm | 21×36×95[H×W×L] | | |
| Weight | g | 50max. | | |
| Mounting method | | Can be attached to 1 side. | | |
| Case material | | No(PWB Material: CEM3) | | |

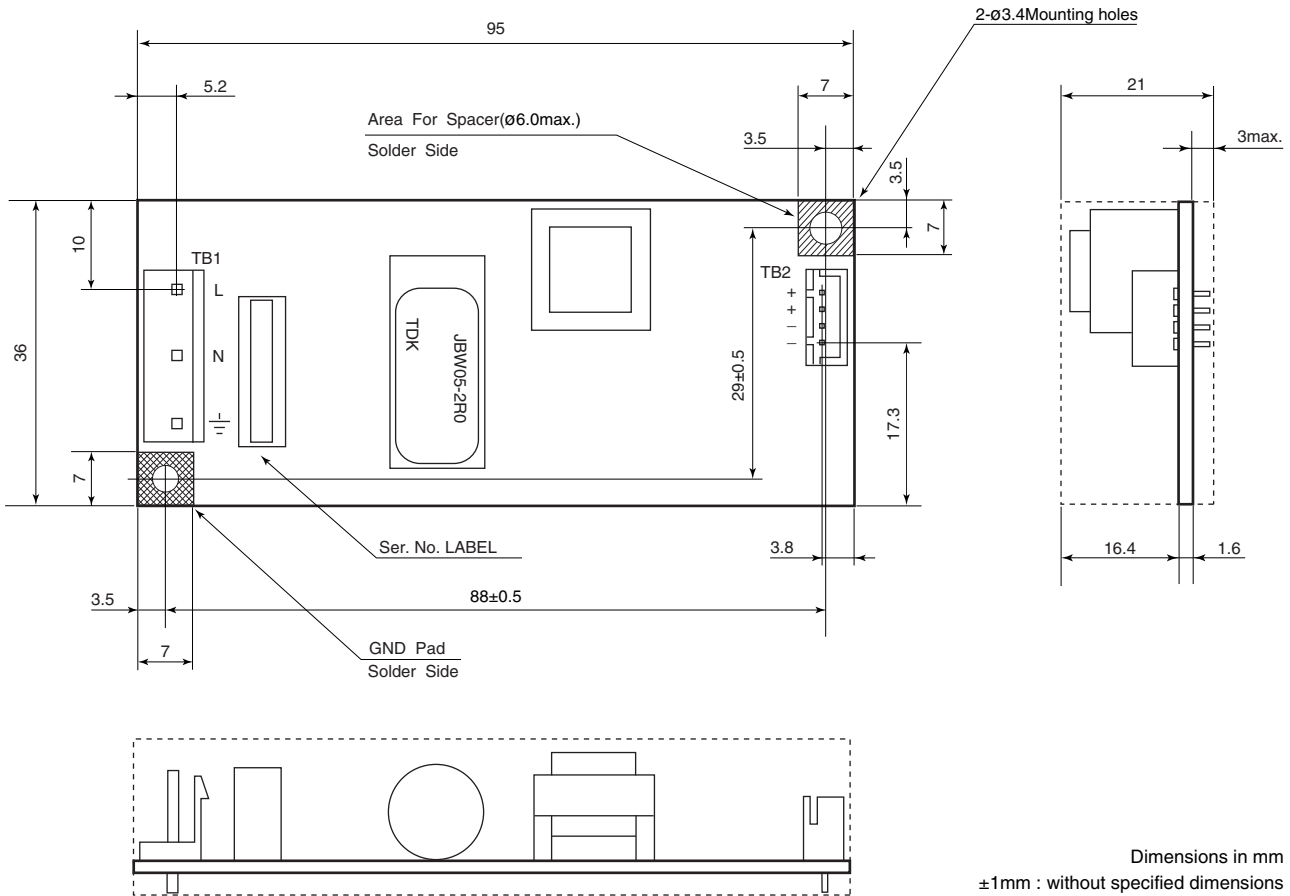
* Current rating(maximum output current) is determined for -10 to +50°C. Derating is required when used outside this temperature range.

• Optional input, output cable kits are available at a separate price.

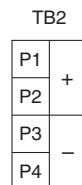
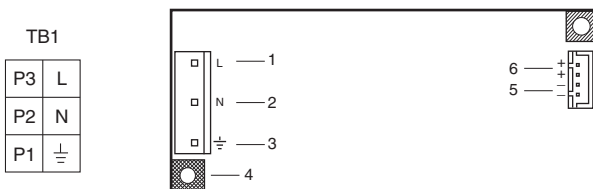


JBW10W Type

SHAPES AND DIMENSIONS



TERMINAL DESIGNATION



| Terminal No. | Designations |
|--------------|--------------------------|
| 1 | Input terminal(L) |
| 2 | Input terminal(N) |
| 3 | Frame ground terminal(G) |
| 4 | Ground pad |
| 5 | Output terminal(-) |
| 6 | Output terminal(+) |

| Connector made by | Power supply side connector | | Cable Side | |
|-------------------------------------|-----------------------------|----------|---------------|----------|
| | Housing | Terminal | Housing | Terminal |
| Japan Solderless Terminal Co., Ltd. | | | | |
| Input Connector(TB1) VH Series | B3P5-VH-B | VHR-5N | SVH-21T-P1.1 | |
| Output Connector(TB2) XH Series | B4B-XH-2 | XHP-4 | SXH-001T-P0.6 | |
| LCE | | | | |
| Input Connector(TB1) P101 Series | P101-05-2/4 | H101-05 | T101 | |
| Output Connector(TB2) P221 Series | P221-04 | H221-04 | T221-01 | |

| Option | Part No. |
|--------|-----------|
| Set | 4EU20G054 |

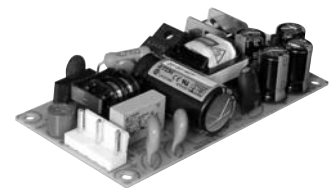
JBW15W Type

SPECIFICATIONS AND STANDARDS

| Part No. | JBW05-3R0 | JBW12-1R3 | JBW15-1R0 | JAW24-0R7 |
|---|--------------------|---|---|--|
| Rated output voltage and current* | 5V • 3A | 12V • 1.3A | 15V • 1.0A | 24V • 0.7A |
| Maximum output power | W | 15 | 15.6 | 16.8 |
| Input conditions | | | | |
| Input voltage Eac/Edc | V | 85 to 265[Rating: 100 to 240]/110 to 370 | | |
| Input frequency | Hz | 47 to 440[Rating: 50 to 60](Single phase) | | |
| Input current | A | 0.36typ./0.43max.[AC.100V]0.2typ./0.24max.[AC.240V] | | |
| Fuse rating | A | 2[AC.250V, built-in] | | |
| Surge current | A | 15typ./19.5max.[AC.100V]30typ./41max.[AC.240V] 1st surge current, cold start, reset after 1s minimum. | | |
| Leakage current | mA | 0.2typ./0.75max.[AC.100V, 60Hz]0.3typ./0.75max.[AC.240V, 60Hz] | | |
| Power factor | | 0.6typ./0.45typ.[AC.100/240V] | | |
| Efficiency | % | 72typ.[AC.100V] | 76typ.[AC.100V] | 76typ.[AC.100V] |
| | % | 72typ.[AC.240V] | 74typ.[AC.240V] | 74typ.[AC.240V] |
| Output characteristics | | | | |
| Output voltage Edc | V | 5 | 12 | 15 |
| Voltage variable range Edc | V | Fixed | Fixed | Fixed |
| Maximum output current | A | 3 | 1.3 | 1 |
| Minimum output current | A | 0 | 0 | 0 |
| Overvoltage threshold Edc | V | 5.75min. | 13.8min. | 17.25min. |
| Overcurrent threshold | A | 3.15min. | 1.37min. | 1.05min. |
| Voltage stability | Source effect | % | 0.4max.[Within the input voltage range] | |
| | Load effect | % | 0.8max.[0 to 100% load] | |
| | Temperature effect | % | 1max.[Ambient temperature: -10 to +50°C] | |
| | Drift(Time effect) | % | 0.4max.[25°C, input and output ratings, after input voltage ON for 30min to 8h] | |
| | Recovery | % | ±4max.[50 to 100% sudden load change] | |
| Ripple Ep-p | mV | 80max. | 120max. | 120max. |
| Ripple noise Ep-p | mV | 120max. | 150max. | 150max. |
| Start up time | ms | 200max.(25typ.)/100max.(25typ.)[AC.100/240V] | | 200max.(40typ.)/100max.(40typ.)[AC.100/240V] |
| Hold up time | ms | 13typ./150typ. [AC.100/240V] | | |
| Auxiliary functions | | | | |
| Indicator display | | No | | |
| Overvoltage protection | | Zenor diode clamp method, output may latch up depending on the condition. | | |
| Overcurrent protection | | Rectangular type, automatic recovery. | | |
| Remote ON-OFF | | No | | |
| Remote sensing | | No | | |
| Parallel operation | | Impossible | | |
| Series operation | | Impossible | | |
| Output voltage external variable function | | No | | |
| Standards | | | | |
| Safety standards | | UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(TÜV) approved. | | |
| Noise terminal voltage | | FCC-B, VCCI-B, EN55011-B, EN55022-B meet. | | |
| Input harmonics current requirement | | No | | |
| Constructions | | | | |
| External dimensions | mm | 22.6×50×95[H×W×L] | | |
| Weight | g | 80max. | | |
| Mounting method | | Can be attached to 1 side. | | |
| Case material | | No(PWB Material: CEM3) | | |

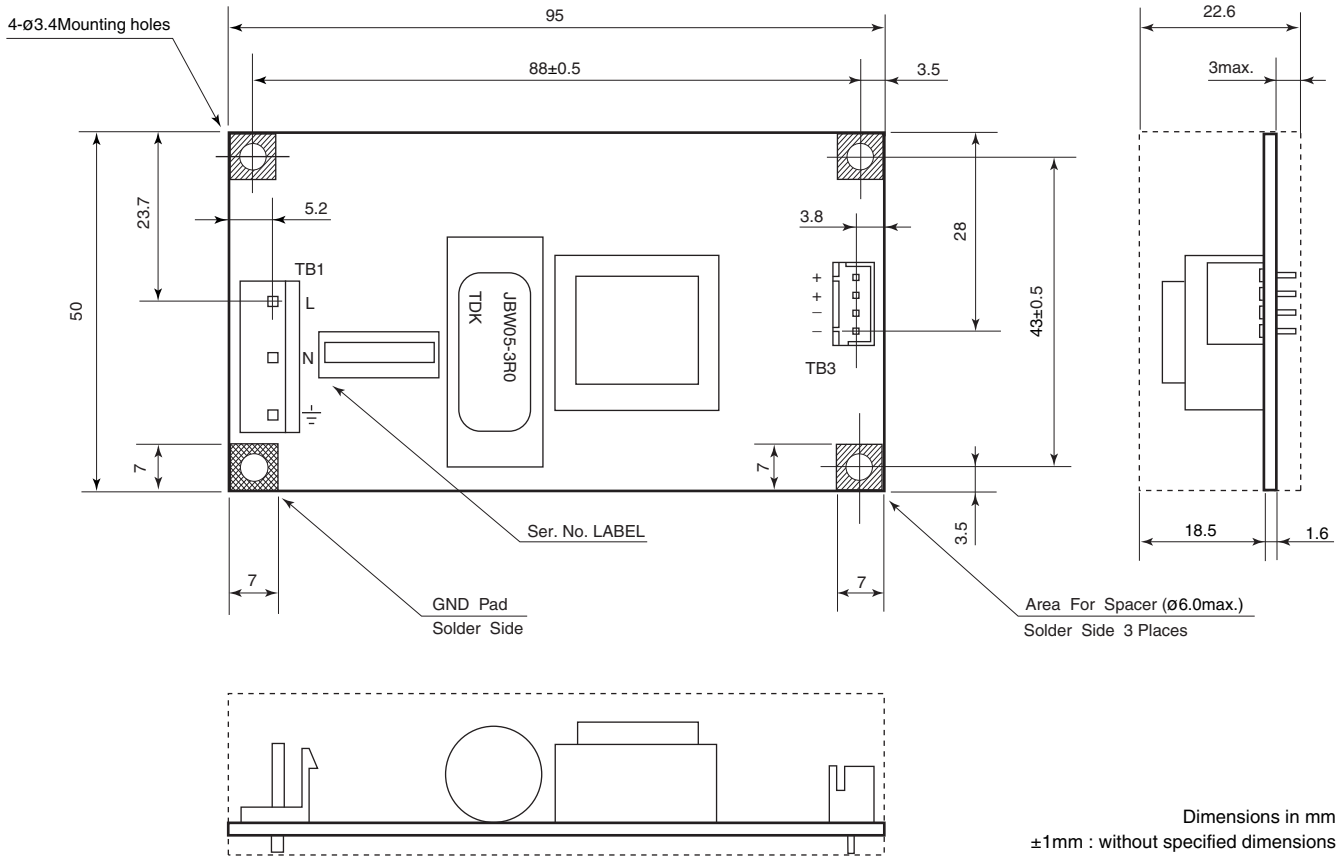
* Current rating(maximum output current) is determined for -10 to +50°C. Derating is required when used outside this temperature range.

• Optional input, output cable kits are available at a separate price.



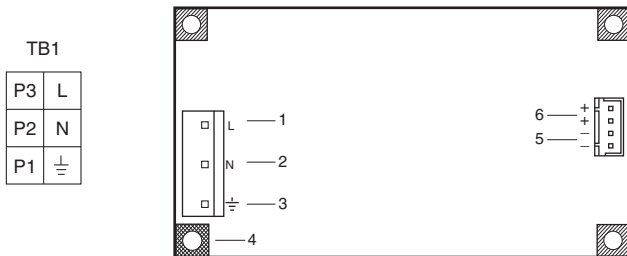
JBW15W Type

SHAPES AND DIMENSIONS



Dimensions in mm
±1mm : without specified dimensions

TERMINAL DESIGNATION



| Terminal No. | Designations |
|--------------|--------------------------|
| 1 | Input terminal(L) |
| 2 | Input terminal(N) |
| 3 | Frame ground terminal(G) |
| 4 | Ground pad |
| 5 | Output terminal(-) |
| 6 | Output terminal(+) |

| Connector made by | Power supply side connector | Cable Side Housing | Terminal |
|-------------------------------------|-----------------------------|--------------------|---------------|
| Japan Solderless Terminal Co., Ltd. | | | |
| Input Connector(TB1) VH Series | B3P5-VH-B | VHR-5N | SVH-21T-P1.1 |
| Output Connector(TB3) XH Series | B4B-XH-2 | XHP-4 | SXH-001T-P0.6 |
| LCE | | | |
| Input Connector(TB1) P101 Series | P101-05-2/4 | H101-05 | T101 |
| Output Connector(TB3) P221 Series | P221-04 | H221-04 | T221-01 |

| Option Set | Part No. |
|------------|-----------|
| | 4EU20G054 |

• All specifications are subject to change without notice.

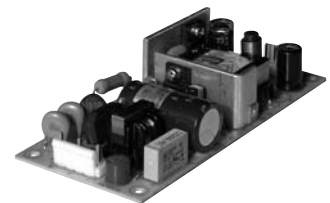
JBW30W Type

SPECIFICATIONS AND STANDARDS

| Part No. | JBW05-6R0 | JBW12-2R5 | JBW15-2R0 | JAW24-1R3 |
|---|--------------------|---|---|-----------------|
| Rated output voltage and current* | 5V • 6A | 12V • 2.5A | 15V • 2A | 24V • 1.3A |
| Maximum output power | W | 30 | 30 | 31.2 |
| Input conditions | | | | |
| Input voltage Eac/Edc | V | 85 to 265[Rating: 100 to 240]/110 to 370 | | |
| Input frequency | Hz | 47 to 440[Rating: 50 to 60](Single phase) | | |
| Input current | A | 0.65typ./0.86max.[AC.100V]0.35typ./0.48max.[AC.240V] | | |
| Fuse rating | A | 2[AC.250V, built-in] | | |
| Surge current | A | 15typ./30max.[AC.100V]30typ./60max.[AC.240V] 1st surge current, cold start, reset after 1s minimum. | | |
| Leakage current | mA | 0.35typ./0.75max.[AC.100V, 60Hz]0.5typ./0.75max.[AC.240V, 60Hz] | | |
| Power factor | | 0.6typ./0.45typ.[AC.100/240V] | | |
| Efficiency | % | 75typ.[AC.100V] | 78typ.[AC.100V] | 79typ.[AC.100V] |
| | % | 77typ.[AC.240V] | 79typ.[AC.240V] | 80typ.[AC.240V] |
| Output characteristics | | | | |
| Output voltage Edc | V | 5 | 12 | 15 |
| Voltage variable range Edc | V | Fixed | Fixed | Fixed |
| Maximum output current | A | 6 | 2.5 | 2 |
| Minimum output current | A | 0 | 0 | 0 |
| Overvoltage threshold Edc | V | 5.6min. | 13.3min. | 16.6min. |
| Overcurrent threshold | A | 6.3min. | 2.7min. | 2.1min. |
| Voltage stability | Source effect | % | 0.4max.[Within the input voltage range] | |
| | Load effect | % | 0.8max.[0 to 100% load] | |
| | Temperature effect | % | 2max.[Ambient temperature: -10 to +50°C] | |
| | Drift(Time effect) | % | 0.4max.[25°C, input and output ratings, after input voltage ON for 30min to 8h] | |
| | Recovery | % | ±4max.[50 to 100% sudden load change] | |
| Ripple Ep-p | mV | 80max. | 120max. | 120max. |
| Ripple noise Ep-p | mV | 120max. | 150max. | 150max. |
| Start up time | ms | 650max.(350typ.)/320max.(130typ.)[AC.100/240V] | | |
| Hold up time | ms | 20typ./160typ.[AC.100/240V] | | |
| Auxiliary functions | | | | |
| Indicator display | | No | | |
| Overvoltage protection | | Voltage shut-down type. | | |
| Overcurrent protection | | Rectangular type(Winker operation), automatic recovery. | | |
| Remote ON-OFF | | No | | |
| Remote sensing | | No | | |
| Parallel operation | | Impossible | | |
| Series operation | | Impossible | | |
| Output voltage external variable function | | No | | |
| Standards | | | | |
| Safety standards | | UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(TÜV) approved. | | |
| Noise terminal voltage | | FCC-B, VCCI-B, EN55011-B, EN55022-B meet. | | |
| Input harmonics current requirement | | No | | |
| Constructions | | | | |
| External dimensions | mm | 26×55×122[H×W×L] | | |
| Weight | g | 150max. | | |
| Mounting method | | Can be attached to 1 side. | | |
| Case material | | No(PWB Material: CEM3) | | |

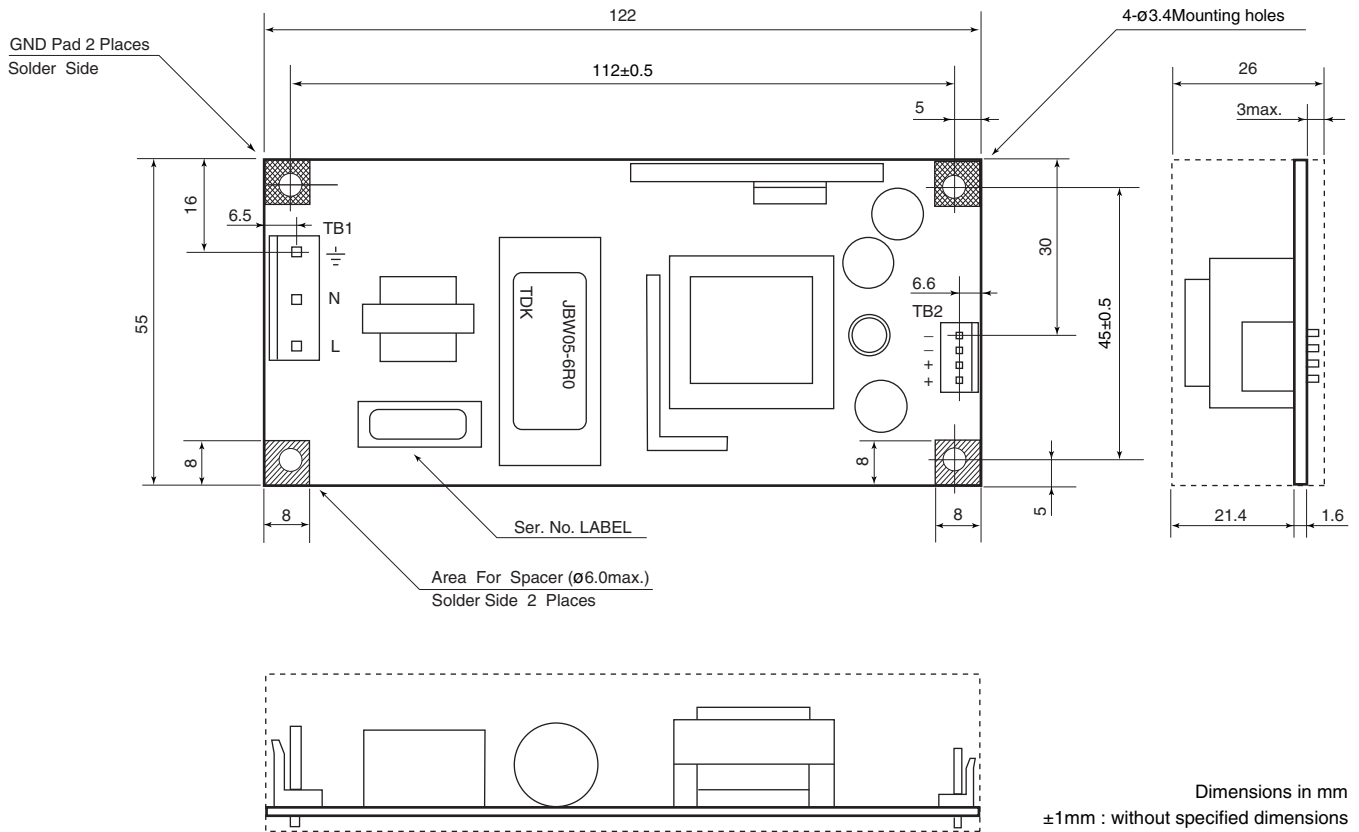
* Current rating(maximum output current) is determined for -10 to +50°C. Derating is required when used outside this temperature range.

• Optional input, output cable kits are available at a separate price.



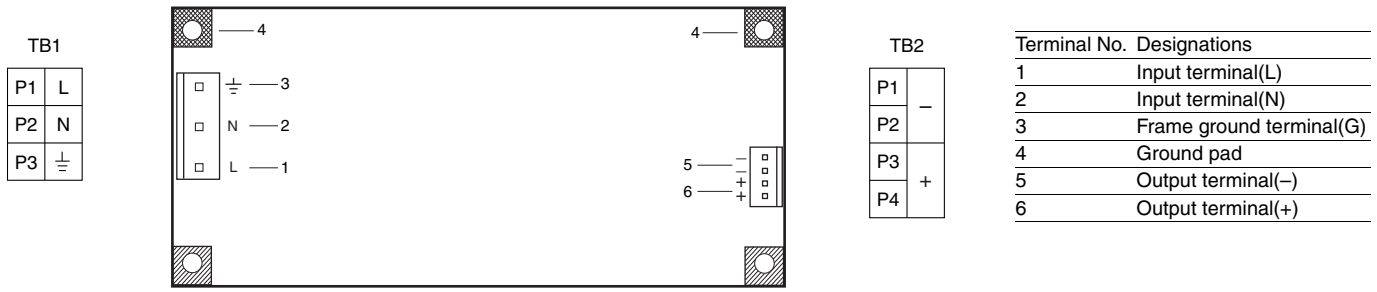
JBW30W Type

SHAPES AND DIMENSIONS



Dimensions in mm
±1mm : without specified dimensions

TERMINAL DESIGNATION



| Connector made by | Power supply side connector | Cable Side Housing | Terminal |
|-------------------------------------|-----------------------------|--------------------|--------------|
| Japan Solderless Terminal Co., Ltd. | | | |
| Input Connector(TB1) VH Series | B3P5-VH-B | VHR-5N | SVH-21T-P1.1 |
| Output Connector(TB2) VH Series | B4P-VH-B | VHR-4N | SVH-21T-P1.1 |
| LCE | | | |
| Input Connector(TB1) P101 Series | P101-05-2/4 | H101-05 | T101 |
| Output Connector(TB2) P101 Series | P101-04 | H101-04 | T101 |

| Option | Part No. |
|--------|-----------|
| Set | 4EU20G057 |

• All specifications are subject to change without notice.

JBW50W Type

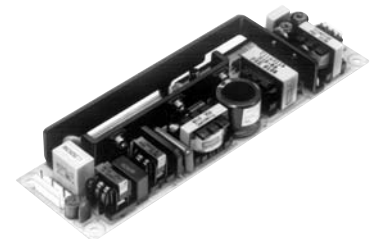
SPECIFICATIONS AND STANDARDS

| Part No. | JBW05-10R | JBW12-4R3 | JBW15-3R5 | JBW24-2R1 |
|---|--------------------|---|---|-----------------|
| Rated output voltage and current*1 | 5V • 10A | 12V • 4.3A | 15V • 3.5A | 24V • 2.1A |
| Maximum output power | W | 50 | 51.6 | 52.5 |
| Input conditions | | | | |
| Input voltage Eac/Edc*2 | V | 85 to 265[Rating: 100 to 240]/120 to 375 | | |
| Input frequency | Hz | 47 to 66[Rating: 50 to 60](Single phase) | | |
| Input current | A | 0.7typ./0.88max. [AC.100V]0.35typ./0.5max. [AC.240V] | | |
| Fuse rating | A | 3.15[AC.250V, built-in] | | |
| Surge current | A | 15typ.(30max.)[AC.100V]40typ.(60max.)[AC.240V] cold start | | |
| Leakage current | mA | 0.35typ./0.75max.[AC.100V, 60Hz]0.5typ./0.75max.[AC.240V, 60Hz] | | |
| Power factor | | 0.99typ./0.93typ.[AC.100/240V] | | |
| Efficiency | % | 77typ.[AC.100V] | 80typ.[AC.100V] | 80typ.[AC.100V] |
| | % | 79typ.[AC.240V] | 81typ.[AC.240V] | 81typ.[AC.240V] |
| Output characteristics | | | | |
| Output voltage Edc | V | 5 | 12 | 15 |
| Voltage variable range Edc | V | 4.5 to 5.5 | 10.8 to 13.2 | 13.5 to 16.5 |
| Maximum output current | A | 10 | 4.3 | 3.5 |
| Minimum output current | A | 0 | 0 | 0 |
| Overvoltage threshold Edc | V | 5.75 to 6.9 | 13.8 to 16.8 | 17.2 to 21 |
| Overcurrent threshold | A | 10.5min. | 5.4min. | 4.4min. |
| Voltage stability | Source effect | % | 0.4max.[Within the input voltage range] | |
| | Load effect | % | 0.8max.[0 to 100% load] | |
| | Temperature effect | % | 1max.[Ambient temperature: -10 to +50°C] | |
| | Drift(Time effect) | % | 0.4max.[25°C, input and output ratings, after input voltage ON for 30min to 8h] | |
| | Recovery | % | ±4max.[50 to 100% sudden load change] | |
| Ripple Ep-p | mV | 80max. | 120max. | 120max. |
| Ripple noise Ep-p | mV | 120max. | 150max. | 150max. |
| Start up time | ms | 500max.(400typ.)/500max.(400typ.) [AC.100/240V] | | |
| Hold up time | ms | 20typ./20typ. [AC.100/240V] | | |
| Auxiliary functions | | | | |
| Indicator display | | No | | |
| Overvoltage protection | | Voltage shut-down type. | | |
| Overcurrent protection | | Rectangular type, automatic recovery. | | |
| Remote ON-OFF | | No | | |
| Remote sensing | | No | | |
| Parallel operation | | Impossible | | |
| Series operation | | Possible | | |
| Output voltage external variable function | | No | | |
| Standards | | | | |
| Safety standards | | UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(TÜV) approved. | | |
| Noise terminal voltage | | FCC-B, VCCI-B, EN55011-B, EN55022-B meet. | | |
| Input harmonics current requirement | | EN61000-3-2 meet. | | |
| Constructions | | | | |
| External dimensions | mm | 26×55×190[H×W×L] | | |
| Weight | g | 220max. | | |
| Mounting method | | Can be attached to 1 side. | | |
| Case material | | No(PWB Material: CEM3) | | |

*1 Current rating(maximum output current) is determined for -10 to +50°C. Derating is required when used outside this temperature range.

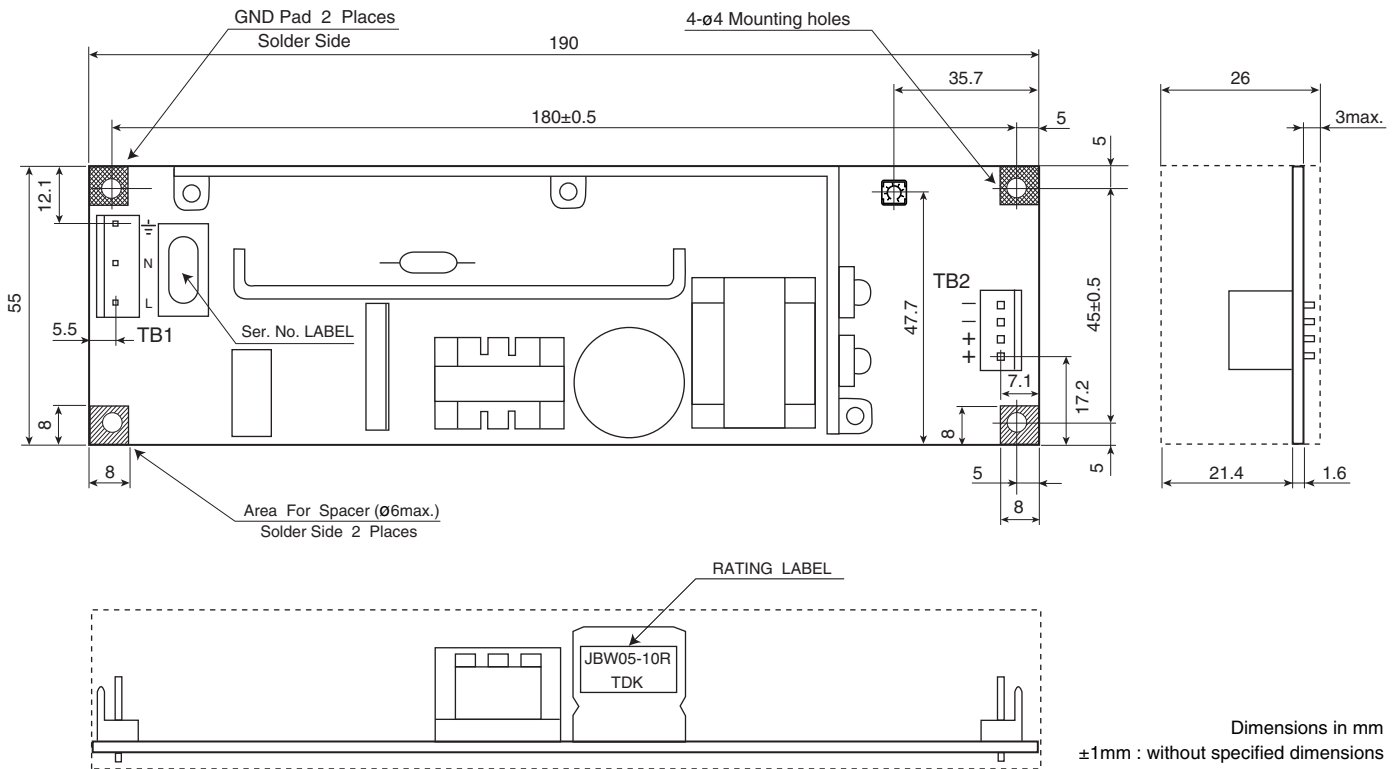
*2 Please note that the deterioration of parts is occasionally caused when operating for a long time(over 10 minutes) with the voltage below the range of the input voltage.

• Optional input, output cable kits are available at a separate price.

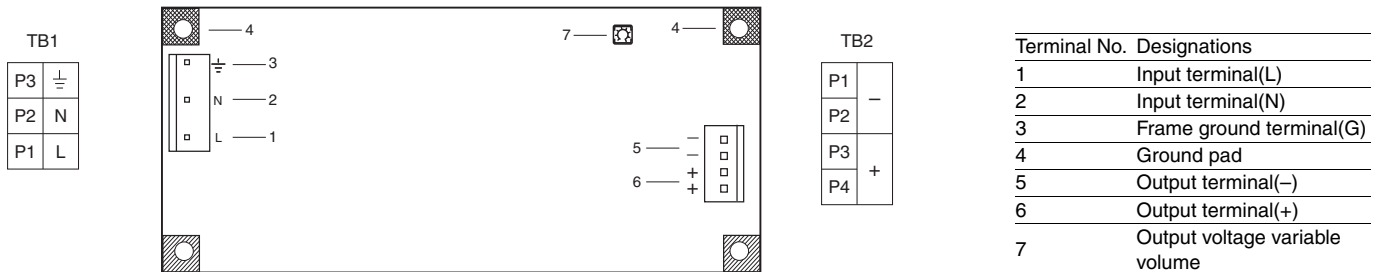


JBW50W Type

SHAPES AND DIMENSIONS



TERMINAL DESIGNATION



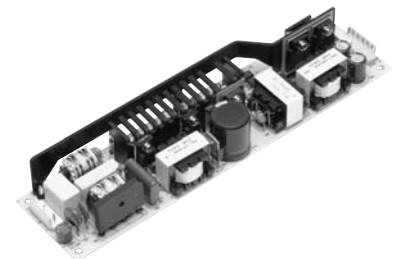
| Connector made by | Power supply side connector | Cable Side | |
|-------------------------------------|-----------------------------|------------|--------------|
| | | Housing | Terminal |
| Japan Solderless Terminal Co., Ltd. | | | |
| Input Connector(TB1) VH Series | B3P5-VH-B | VHR-5N | SVH-21T-P1.1 |
| Output Connector(TB2) VH Series | B4P-VH-B | VHR-4N | SVH-21T-P1.1 |
| LCE | | | |
| Input Connector(TB1) P101 Series | P101-05-2/4 | H101-05 | T101 |
| Output Connector(TB2) P101 Series | P101-04 | H101-04 | T101 |

| Option | Part No. |
|--------|-----------|
| Set | 4EU20G057 |

JBW75W Type

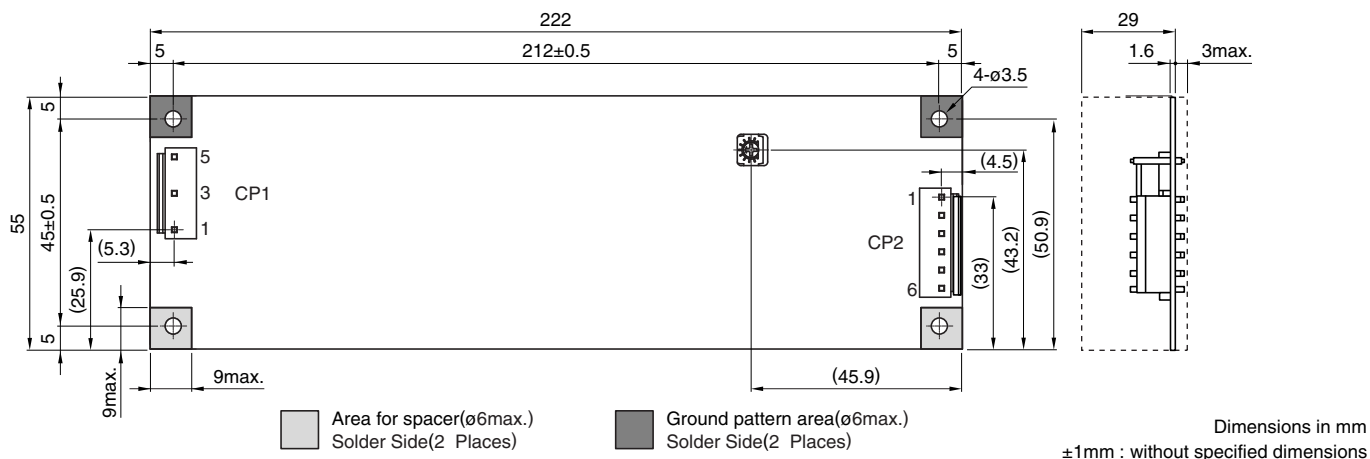
SPECIFICATIONS AND STANDARDS

| Part No. | | JBW05-15R | JBW12-6R3 | JBW15-5R0 | JBW24-3R2 |
|-------------------------------------|--------------------|---|-------------------------|-------------------------|-------------------------|
| Rated output voltage and current | | 5V • 15A | 12V • 6.3A | 15V • 5.0A | 24V • 3.2A |
| Maximum output power | W | 75 | 75.6 | 75 | 76.8 |
| Input conditions | | | | | |
| Input voltage Eac/Edc | V | 85 to 265[Rating: 100-240]/120 to 370 | | | |
| Input frequency | Hz | 47 to 66 | | | |
| Input current | A | 1.6/0.8max.[100-240V] | | | |
| Fuse rating | A | 3.15 | | | |
| Surge current | A | 30/60max.[100-240V] | | | |
| Leakage current | mA | 0.75/0.75max.[AC.100V(DENAN)/240V(UL, IEC)] | | | |
| Power factor | | 0.99/0.95typ.[100-240V] | | | |
| Efficiency | % | 75/77typ. [100-240V] | 78/80typ. [100-240V] | 79/81typ. [100-240V] | 82/84typ. [100-240V] |
| Output characteristics | | | | | |
| Output voltage Edc | V | 5 | 12 | 15 | 24 |
| Voltage variable range Edc | V | 4.5 to 5.5 | 10.8 to 13.2 | 13.5 to 16.5 | 21.6 to 26.4 |
| Maximum output current | A | 15 | 6.3 | 5.0 | 3.2(Peak4.2) |
| Overvoltage threshold Edc | V | 5.75 to 6.9 | 13.8 to 16.8 | 17.2 to 21 | 27.6 to 33.6 |
| Overcurrent threshold | A | 15.8min. | 6.6min. | 5.2min. | 4.4min. |
| Voltage stability | Source effect | % 0.4max.[Within the input voltage range] | | | |
| | Load effect | % 0.8max.[0 to 100% load] | | | |
| | Temperature effect | % 1max.[Ambient temperature: -10 to +60°C] | | | |
| | Drift(Time effect) | % 0.4max.[25°C, input and output ratings, after input voltage ON for 30min to 8h] | | | |
| | Recovery | % ±4max.[50 to 100% sudden load change] | | | |
| Ripple Ep-p | mV | 80 | 120 | 120 | 120 |
| Ripple noise Ep-p | mV | 120 | 150 | 150 | 150 |
| Start up time | ms | 500max.(400typ.)/250max.(200typ.)[AC.100/240V] | | | |
| Hold up time | ms | 20typ.[100-240V] | | | |
| Auxiliary functions | | | | | |
| Indicator display | | No | | | |
| Overvoltage protection | | Voltage shut-down type(Latch). | | | |
| Overcurrent protection | | Rectangular type, automatic recovery. | | | |
| Remote ON-OFF | | No | | | |
| Remote sensing | | No | | | |
| Standards | | | | | |
| Safety standards | | UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(TÜV) approved. | | | |
| Noise terminal voltage | | FCC-B, VCCI-B, EN55011-B, EN55022-B meet. | | | |
| Input harmonics current requirement | | EN61000-3-2 | | | |
| CE marking | | Planned compliance. | | | |
| Constructions | | | | | |
| External dimensions | mm | 32×55×222[H×W×L] | | | |
| Weight | g | 290max. | | | |
| Mounting method | | Can be attached to 1 side. | | | |
| Case material | | CEM3 | | | |



JBW75W Type

SHAPES AND DIMENSIONS



TERMINAL DESIGNATION

CP1

| | |
|----|---|
| P1 | L |
| P3 | N |
| P5 | ⊥ |

· Japan Solderless Terminal Co., Ltd.
VH Series B3P5-VH-B



CP2

| | |
|----|---|
| P1 | |
| P2 | - |
| P3 | |
| P4 | |
| P5 | + |
| P6 | |

· Japan Solderless Terminal Co., Ltd.
VH Series B6P-VH-B

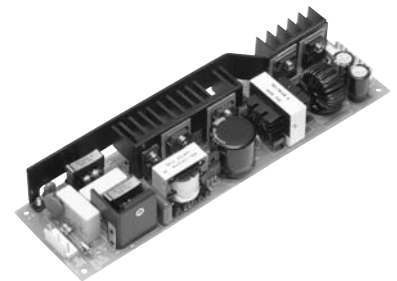
| Connector made by | Power supply side connector | Cable Side | |
|-------------------------------------|-----------------------------|------------|--------------|
| | | Housing | Terminal |
| Japan Solderless Terminal Co., Ltd. | | | |
| Input Connector(CP1)VH Series | B3P5-VH-B | VHR-5N | SVH-21T-P1.1 |
| Output Connector(CP2)VH Series | B6P-VH-B | VHR-6N | SVH-21T-P1.1 |

| Option | Part No. |
|--------|-----------|
| Set | 4EU20G085 |

JBW100W Type

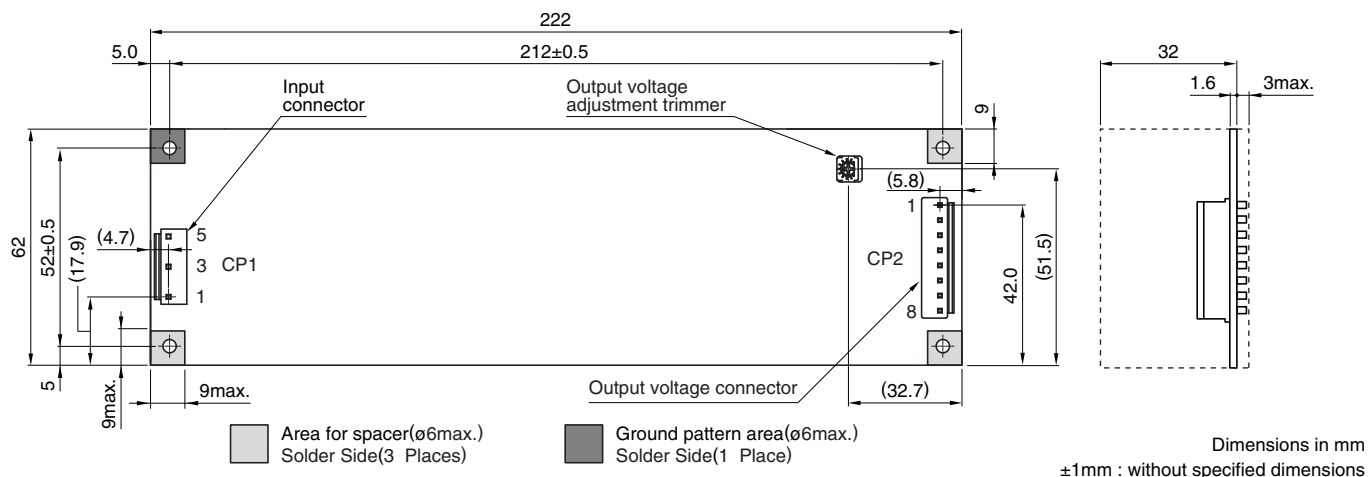
SPECIFICATIONS AND STANDARDS

| Part No. | | JBW05-20R | JBW12-8R5 | JBW15-6R7 | JBW24-4R3 |
|-------------------------------------|--------------------|---|-------------------------|-------------------------|-------------------------|
| Rated output voltage and current | | 5V • 20A | 12V • 8.5A | 15V • 6.7A | 24V • 4.3A |
| Maximum output power | W | 100 | 102 | 100.5 | 103.2 |
| Input conditions | | | | | |
| Input voltage Eac/Edc | V | 85 to 265[Rating: 100-240]/120 to 370 | | | |
| Input frequency | Hz | 47 to 66 | | | |
| Input current | A | 1.8/1.0max.[100-240V] | | | |
| Fuse rating | A | 5 | | | |
| Surge current | A | 30/60max.[100-240V] | | | |
| Leakage current | mA | 0.75/0.75max.[AC.100V(DENAN)/240V(UL, IEC)] | | | |
| Power factor | | 0.99/0.95typ.[100-240V] | | | |
| Efficiency | % | 78/80typ. [100-240V] | 80/82typ. [100-240V] | 80/82typ. [100-240V] | 82/85typ. [100-240V] |
| Output characteristics | | | | | |
| Output voltage Edc | V | 5 | 12 | 15 | 24 |
| Voltage variable range Edc | V | ±10% | ±10% | ±10% | ±10% |
| Maximum output current | A | 20 | 8.5 | 6.7 | 4.3(Peak5) |
| Overvoltage threshold Edc | V | 5.75 to 6.9 | 13.8 to 16.8 | 17.2 to 21 | 27.6 to 33.6 |
| Overcurrent threshold | A | 21.0min. | 10.6min. | 8.38min. | 5.38min. |
| Voltage stability | Source effect | % 0.4max.[Within the input voltage range] | | | |
| | Load effect | % 0.8max.[0 to 100% load] | | | |
| | Temperature effect | % 1max.[Ambient temperature: -10 to +60°C] | | | |
| | Drift(Time effect) | % 0.4max.[25°C, input and output ratings, after input voltage ON for 30min to 8h] | | | |
| | Recovery | % ±4max.[50 to 100% sudden load change] | | | |
| Ripple Ep-p | mV | 80 | 120 | 120 | 120 |
| Ripple noise Ep-p | mV | 120 | 150 | 150 | 150 |
| Start up time | ms | 500max.(400typ.)/500max.(300typ.)[AC.100/240V] | | | |
| Hold up time | ms | 20typ.[100-240V] | | | |
| Auxiliary functions | | | | | |
| Indicator display | | No | | | |
| Overvoltage protection | | Voltage shut-down type(Latch). | | | |
| Overcurrent protection | | Rectangular type, automatic recovery. | | | |
| Remote ON-OFF | | No | | | |
| Remote sensing | | No | | | |
| Standards | | | | | |
| Safety standards | | UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(TÜV) approved. | | | |
| Noise terminal voltage | | FCC-B, VCCI-B, EN55011-B, EN55022-B meet. | | | |
| Input harmonics current requirement | | EN61000-3-2 | | | |
| CE marking | | Planned compliance. | | | |
| Constructions | | | | | |
| External dimensions | mm | 35×62×222[H×W×L] | | | |
| Weight | g | 400max. | | | |
| Mounting method | | Can be attached to 1 side. | | | |
| Case material | | FR4 | | | |

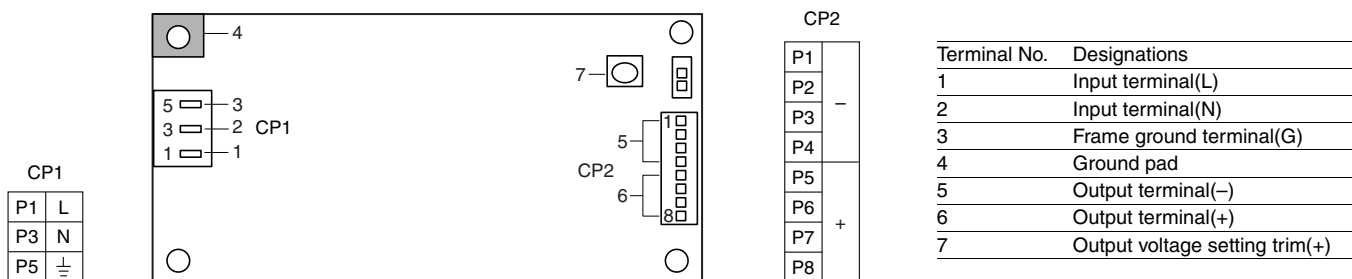


JBW100W Type

SHAPES AND DIMENSIONS



TERMINAL DESIGNATION



· Japan Solderless Terminal Co., Ltd.
VH Series B3P5-VH-B

· Japan Solderless Terminal Co., Ltd.
VH Series B8P-VH-B

| Connector made by | Power supply side connector | Cable Side | |
|-------------------------------------|-----------------------------|------------|--------------|
| | | Housing | Terminal |
| Japan Solderless Terminal Co., Ltd. | | | |
| Input Connector(CP1)VH Series | B3P5-VH-B | VHR-5N | SVH-21T-P1.1 |
| Output Connector(CP2)VH Series | B8P-VH-B | VHR-8N | SVH-21T-P1.1 |

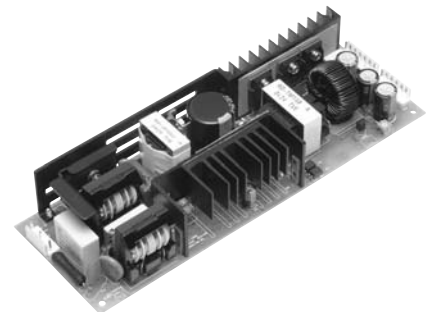
| Option | Part No. |
|--------|-----------|
| Set | 4EU20G056 |

JBW150W Type

SPECIFICATIONS AND STANDARDS

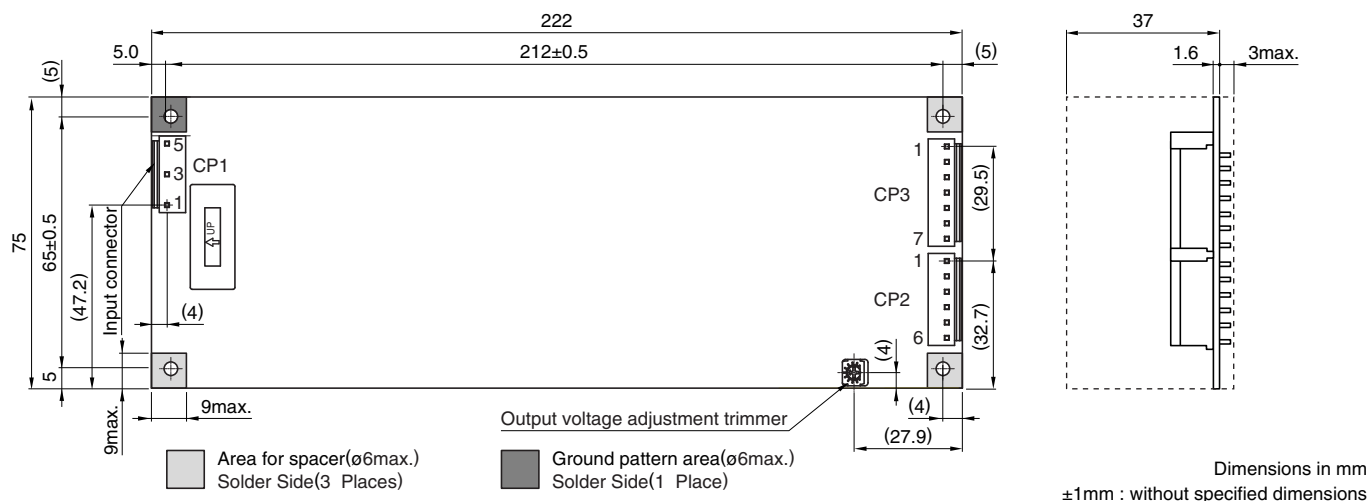
| Part No. | | JBW05-30R | JBW12-12R | JBW15-10R | JBW24-6R3 | JBW48-3R2 |
|-------------------------------------|--------------------|---|-------------------------|-------------------------|-------------------------|-------------------------|
| Rated output voltage and current* | | 5V • 30A | 12V • 12A | 15V • 10A | 24V • 6.3A | 48V • 3.2A |
| Maximum output power | W | 150 | 150 | 150 | 151.2 | 153.6 |
| Input conditions | | | | | | |
| Input voltage Eac/Edc | V | 85 to 265[Rating: 100-240]/120 to 370 | | | | |
| Input frequency | Hz | 47 to 66 | | | | |
| Input current | A | 2.7/1.5max.[100-240V] | | | | |
| Surge current | A | 30/60max.[100-240V] | | | | |
| Leakage current | mA | 0.75/0.75max.[AC.100V(DENAN)/240V(UL, IEC)] | | | | |
| Power factor | | 0.99/0.95typ.[100-240V] | | | | |
| Efficiency | % | 78/80typ. [100-240V] | 81/83typ. [100-240V] | 81/83typ. [100-240V] | 82/84typ. [100-240V] | 82/84typ. [100-240V] |
| Output characteristics | | | | | | |
| Output voltage Edc | V | 5 | 12 | 15 | 24 | 48 |
| Voltage variable range Edc | V | 4.5 to 5.5 | 10.8 to 13.2 | 13.5 to 16.5 | 21.6 to 26.4 | 43.2 to 52.8 |
| Maximum output current | A | 30 | 12.5 | 10 | 6.3(Peak7.5) | 3.2 |
| Overvoltage threshold Edc | V | 5.75 to 6.9 | 13.8 to 16.8 | 17.2 to 21 | 27.6 to 33.6 | 55.2 to 67.2 |
| Overcurrent threshold | A | 31.5min. | 15.7min. | 12.5min. | 7.87min. | 3.36min. |
| Voltage stability | Source effect | % 0.4max.[Within the input voltage range] | | | | |
| | Load effect | % 0.8max.[0 to 100% load] | | | | |
| | Temperature effect | % 1max.[Ambient temperature: -10 to +60°C] | | | | |
| | Drift(Time effect) | % 0.4max.[25°C, input and output ratings, after input voltage ON for 30min to 8h] | | | | |
| | Recovery | % ±4max.[50 to 100% sudden load change] | | | | |
| Ripple Ep-p | mV | 80max. | 120max. | 120max. | 120max. | 150max. |
| Ripple noise Ep-p | mV | 120max. | 150max. | 150max. | 150max. | 350max. |
| Start up time | ms | 500max.(400typ.)/500max.(300typ.)[AC.100/240V] | | | | |
| Hold up time | ms | 25/35typ.[AC.100/240V] | | | | |
| Auxiliary functions | | | | | | |
| Indicator display | | No | | | | |
| Overvoltage protection | | Voltage shut-down type(Latch). | | | | |
| Overcurrent protection | | Rectangular type, automatic recovery. | | | | |
| Remote ON-OFF | | No | | | | |
| Remote sensing | | No | | | | |
| Standards | | | | | | |
| Safety standards | | UL60950-1, CSA C22.2 No.60950-1(C-UL), EN60950-1(TÜV) approved. | | | | |
| Noise terminal voltage | | FCC-B, VCCI-B, EN55011-B, EN55022-B meet. | | | | |
| Input harmonics current requirement | | EN61000-3-2 | | | | |
| CE marking | | Meet. | | | | |
| Constructions | | | | | | |
| External dimensions | mm | 40×75×222[H×W×L] | | | | |
| Weight | g | 550max. | | | | |
| Mounting method | | Can be attached to 1 side. | | | | |
| Case metal | | FR4 | | | | |

* Current rating(maximum output current) is determined for -10 to +40°C. Derating is required when used outside this temperature range.

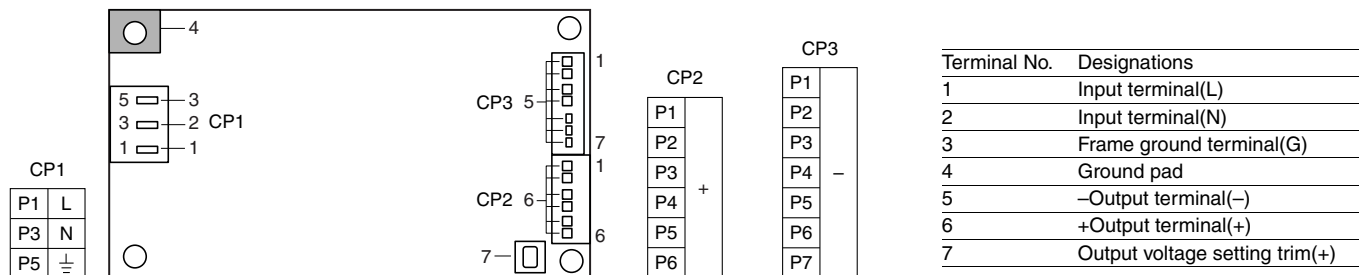


JBW150W Type

SHAPES AND DIMENSIONS



TERMINAL DESIGNATION



· Japan Solderless Terminal Co., Ltd.
VH Series B3P5-VH-B

· Japan Solderless Terminal Co., Ltd.
VH Series B6P-VH-B

· Japan Solderless Terminal Co., Ltd.
VH Series B7P-VH-B

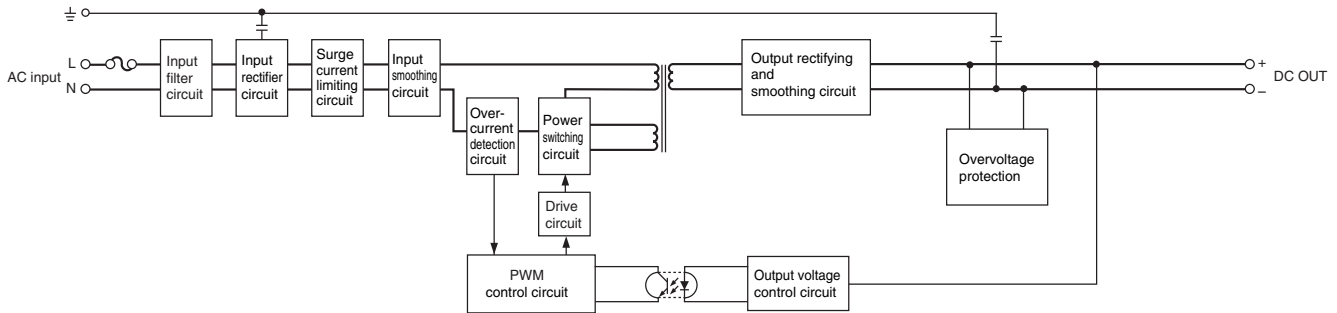
| Connector made by | Power supply side connector | Cable Side | |
|-------------------------------------|-----------------------------|------------|--------------|
| | | Housing | Terminal |
| Japan Solderless Terminal Co., Ltd. | | | |
| Input Connector(CP1)VH Series | B3P5-VH-B | VHR-5N | SVH-21T-P1.1 |
| Output Connector(CP2)VH Series | B6P-VH-B | VHR-6N | SVH-21T-P1.1 |
| Output Connector(CP3)VH Series | B7P-VH-B | VHR-7N | SVH-21T-P1.1 |

| Option | Part No. |
|--------|-----------|
| Set | 4EU00G062 |

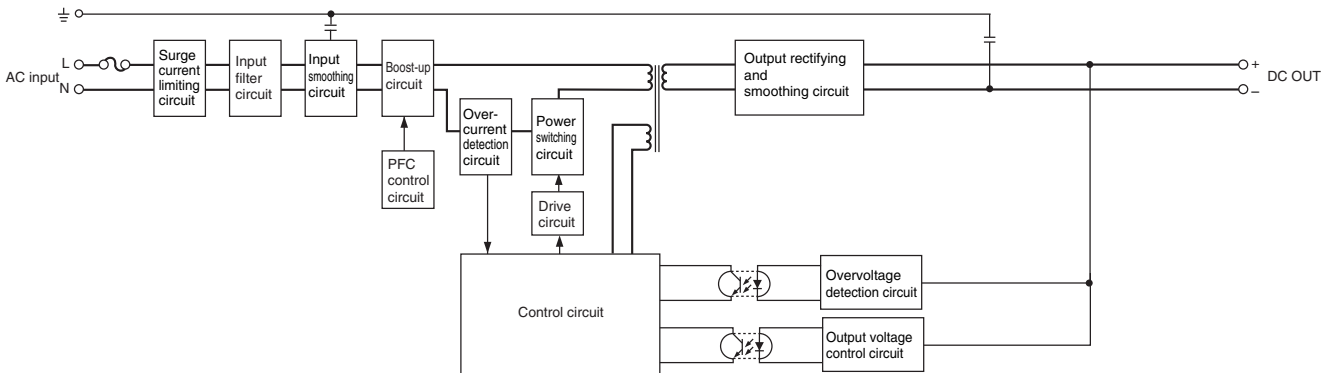
Characteristics, Functions, and Applications

BLOCK DIAGRAMS

JBW10W/15W/30W TYPES



JBW50W TYPE



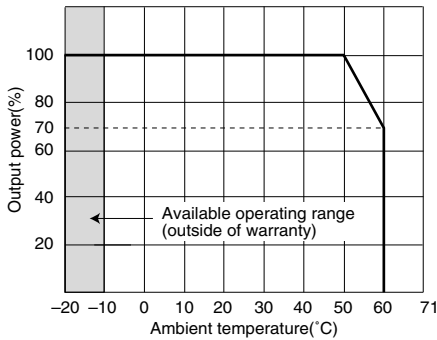
COMMON SPECIFICATIONS

| Temperature and humidity | | |
|---|---------------------------------------|---|
| | Operating(°C) | -10 to +60 |
| Temperature range | Operating available(°C) | -20 to -10 |
| | Storage(°C) | -30 to +75 |
| Humidity range | Operating(%)RH | 10 to 90[Maximum wet-bulb temperature: 35°C, without dewing] |
| | Storage(%)RH | |
| Vibration and shock | | |
| Vibration | 5 to 10Hz | All amplitude 10mm[3 directions, each 1h] |
| | 10 to 200Hz | Acceleration 19.6m/s ² (2G)[3 directions, each 1h] |
| Shock | Acceleration | 10 to 50W: 588m/s ² (60G)[3 directions, each 3 times]/75 to 150W: 588m/s ² (60G)[Sine wave] |
| | Pulse duration | 11±5ms |
| Withstand voltage and insulation resistance | | |
| Withstand voltage | Input terminal to ground terminal(G) | Eac: 2kV, 1min[Normal temperature, normal humidity, cutout current 10mA] |
| | Input terminal to output terminal | Eac: 3kV, 1min[Normal temperature, normal humidity, cutout current 10mA] |
| | Output terminal to ground terminal(G) | Eac: 500V, 1min[Normal temperature, normal humidity, cutout current 10mA] |
| | Input terminal to ground terminal(G) | |
| Insulation resistance | Input terminal to output terminal | Eac: 500V, 100MΩ min.[Normal temperature, normal humidity] |
| | Output terminal to ground terminal(G) | |

Characteristics, Functions, and Applications

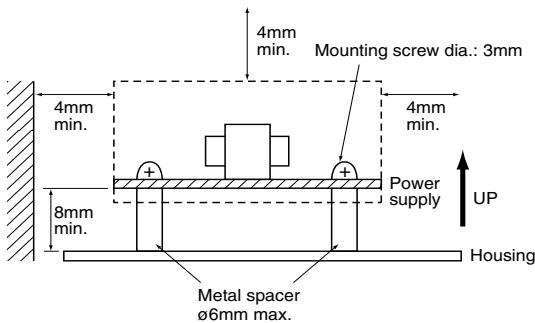
10 to 50W TYPES

OUTPUT POWER-AMBIENT TEMPERATURE(DERATINGS)

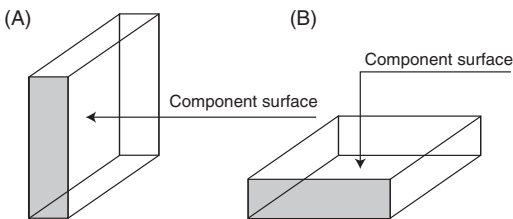


INSTALLATIONS

- Mounting the power supply at the four corners with metal spacers (2 corners for 10W models).
- Maintain a min. 4mm clearance distance in order to satisfy insulation and high voltage safety requirements.
- Lay an insulating sheet under the power supply in case a min. 8mm installation space cannot be secured between the PC board and the housing.
- Provide a min. 4mm distance between heat sink or component surface and surrounding objects in order to cause a thermal convection.
- Since components are mounted on the back (solder) side of the product, sufficient care should be taken when handling the power supply to protect the PC board from shock, vibration, torsion, etc. which can result in damage caused by cracked chip components.



To install the power supply in a device, apply the standard installation direction (A) or (B). In case of an installation in other directions, please contact TDK.

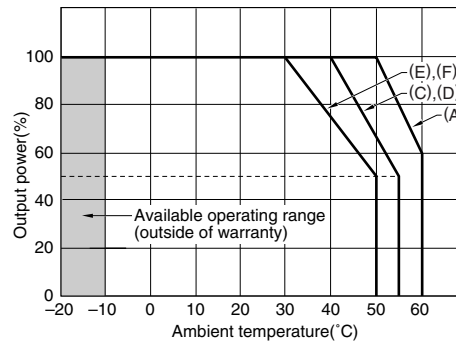


The shaded portion indicates a side in which an output connector is arranged.

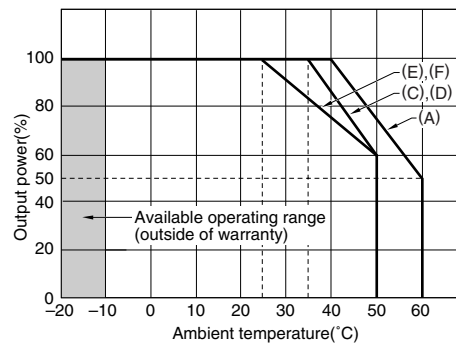
75 to 150W TYPES

OUTPUT POWER-AMBIENT TEMPERATURE(DERATINGS)

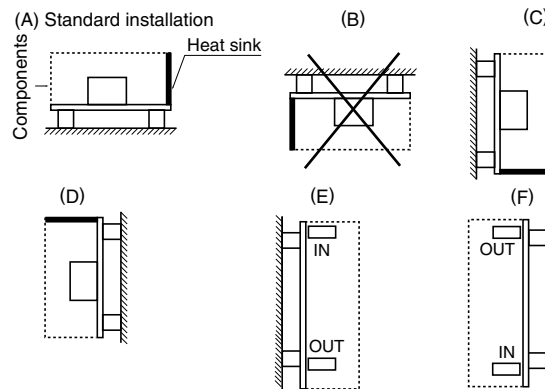
75, 100W TYPES



150W TYPE



INSTALLATION DIRECTION

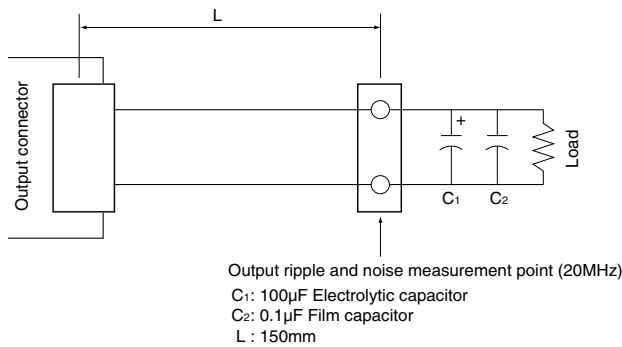


There are installation directions (B) to (F) as shown below in addition to the standard installation direction (A) for mounting the power supply on an apparatus. The installation (B), however, is inhibited because it will cause heat to be trapped inside the power supply.

Derating of the output voltage and the ambient temperature for the installation directions (C) to (F) are not the same as for the direction (A). Please consult us if you need.

Characteristics, Functions, and Applications

RIPPLE NOISE MEASUREMENT CONDITIONS



SERIES OPERATION (TO INCREASE OUTPUT VOLTAGE OR TO OBTAIN SEPARATE ±OUTPUT)

When the output voltage of a single power supply is insufficient, several power supplies can be connected in series in order to obtain a higher voltage or separate ±outputs.

If power supplies A and B in the illustration below are 5V each, a 10V output can be obtained in this connection. It should be noted that, however, the output current is limited to the lower rated current value of the power supplies A and B. There is no problem if the voltages of A and B are different from each other.

D1 and D2 in the illustration designate diodes for preventing reverse voltage application. They are provided for preventing internal components of the power supply having the lower rated voltage from being damaged by an applied reverse voltage caused by a short circuit in the load or the like.

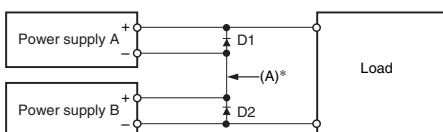
Use diodes which meet the following requirements:

Reverse withstanding voltage: Over twice that of the combined output voltage

Forward current: Over twice that of the output current

Forward voltage drop: As small as possible
 (e.g. Schottkey diode, etc.)

SERIES CONNECTION FOR INCREASING OUTPUT VOLTAGE



* For obtaining separate ±outputs, (A) should be zero voltage.

INSULATION AND WITHSTAND VOLTAGE TESTS

The insulation and withstand voltage tests may cause deterioration. Care must be taken for execution of the tests. The potential must be equal among input, output, and FG (frame ground) terminals. It is preferable to use testers that gently start up at the test-ON and automatically discharge charged energy at the test-OFF. Manual discharging after the tests should be through a resistor around 100kΩ to 1MΩ (Do not perform discharging at low impedance. It may cause deterioration.)

In any case, take full countermeasures for electric-shock prevention.

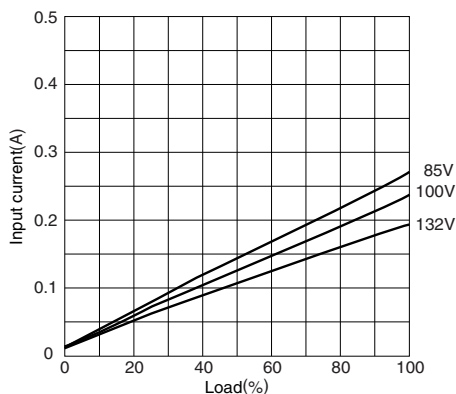
OTHER CONDITIONS

- Unless conditions are otherwise specified in the specifications or standards, 25°C and rated input-output should be applied.

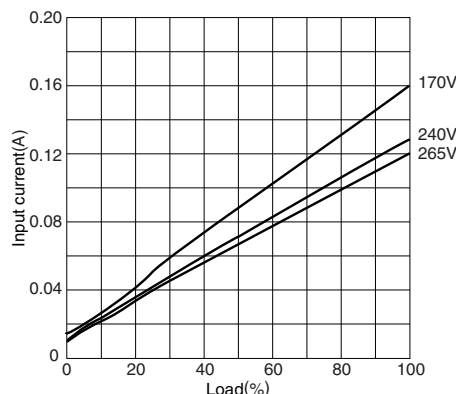
Characteristics, Functions, and Applications

JBW10W TYPE TYPICAL CHARACTERISTICS: JBW05-2R0

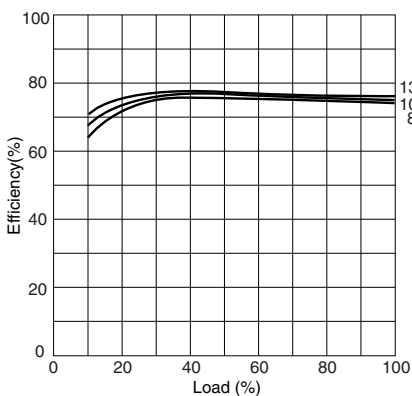
AC.100V TYPE: INPUT CURRENT



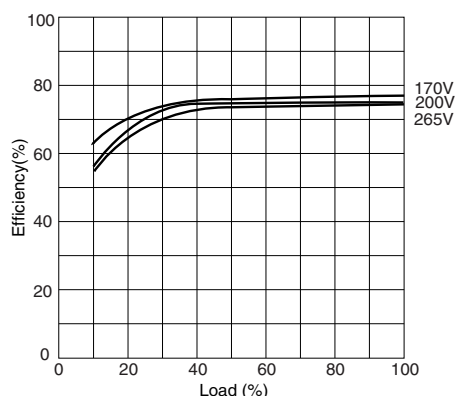
AC.200V TYPE: INPUT CURRENT



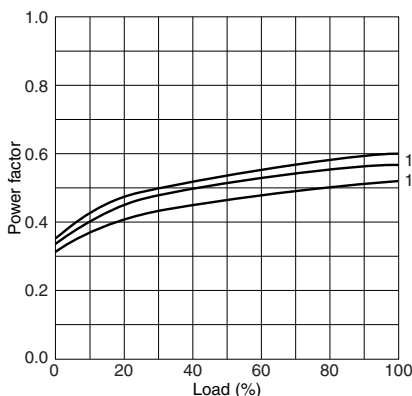
AC.100V TYPE: EFFICIENCY



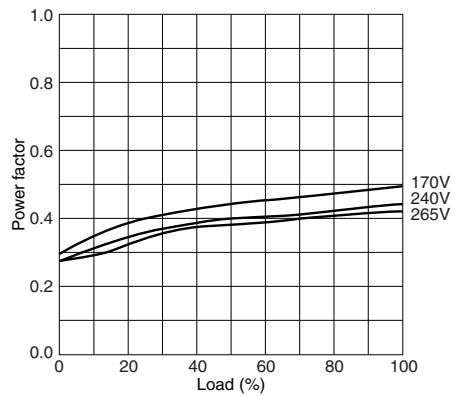
AC.200V TYPE: EFFICIENCY



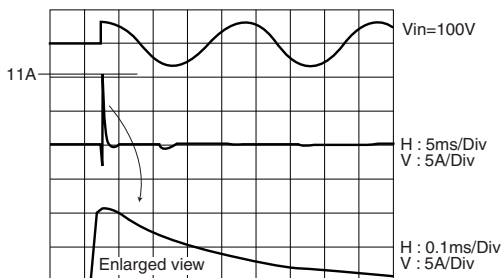
AC.100V TYPE: POWER FACTOR



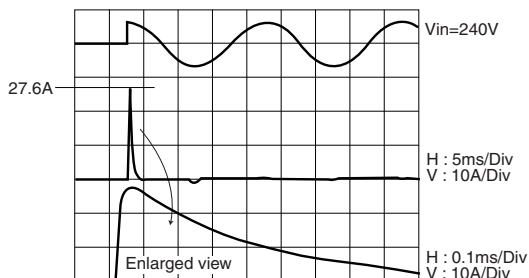
AC.200V TYPE: POWER FACTOR



AC.100V TYPE: SURGE CURRENT



AC.200V TYPE: SURGE CURRENT

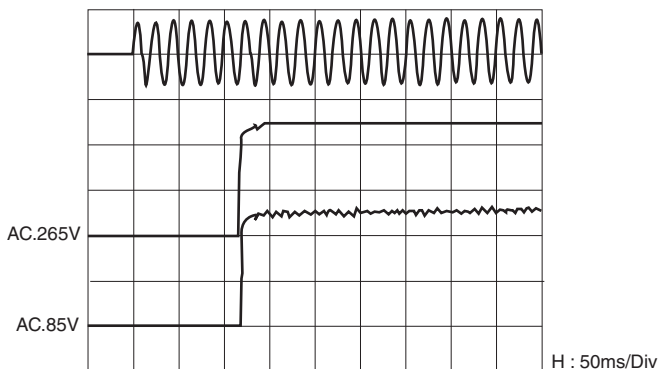


• All specifications are subject to change without notice.

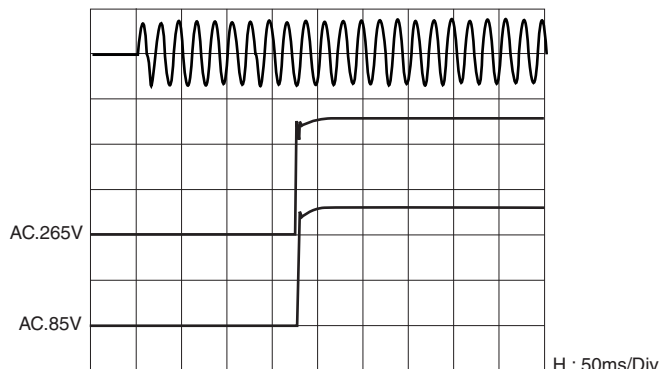
Characteristics, Functions, and Applications

JBW10W TYPE TYPICAL CHARACTERISTICS: JBW05-2R0

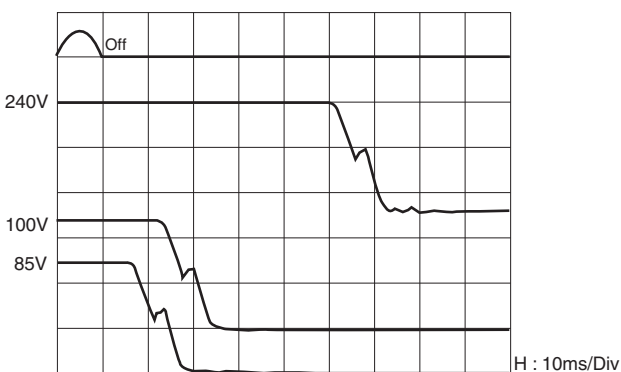
AC.100/200V TYPE: -20°C START UP CHARACTERISTICS



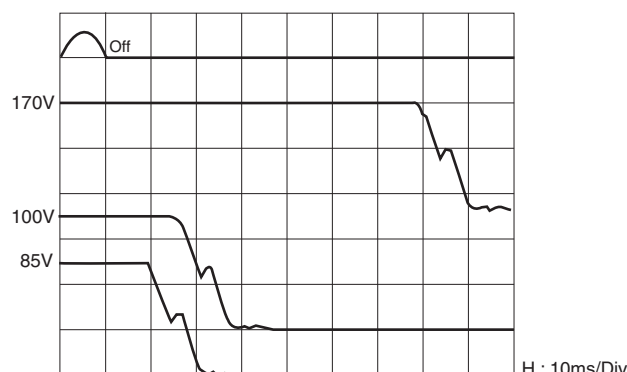
AC.100/200V TYPE: +60°C START UP CHARACTERISTICS



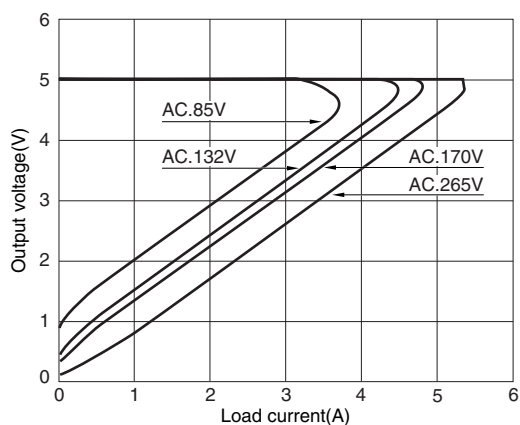
AC.100/200V TYPE: -20°C HOLD UP CHARACTERISTICS



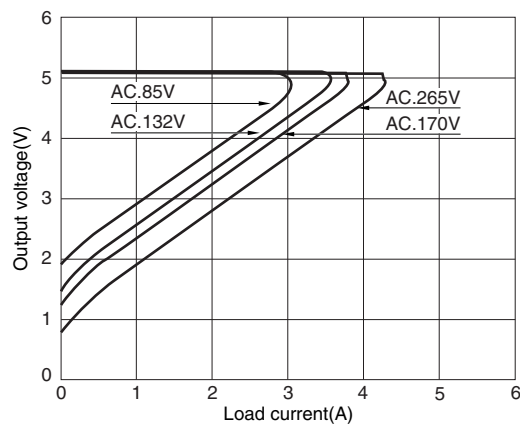
AC.100/200V TYPE: +60°C HOLD UP CHARACTERISTICS



AC.100V/200V TYPE: -20°C OVERCURRENT CURVE



AC.100V/200V TYPE: +60°C OVERCURRENT CURVE

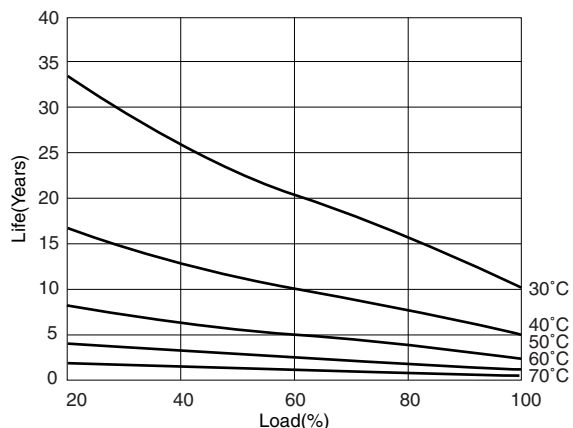


• All specifications are subject to change without notice.

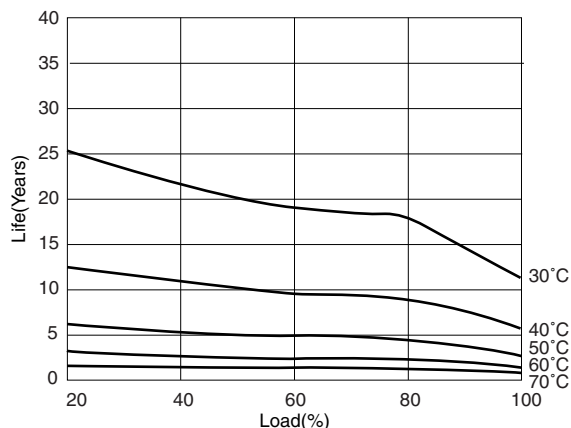
Characteristics, Functions, and Applications

JBW10W TYPE TYPICAL CHARACTERISTICS: JBW05-2R0

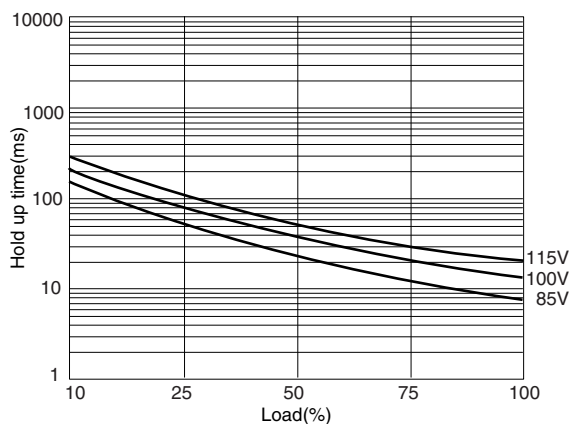
AC.100V TYPE: LIFE OF ELECTROLYTIC CAPACITOR



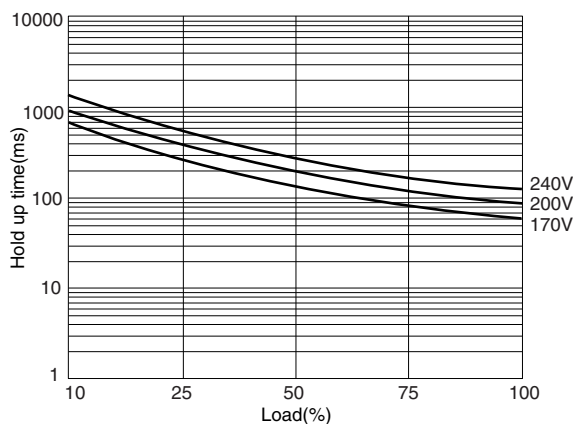
AC.200V TYPE: LIFE OF ELECTROLYTIC CAPACITOR



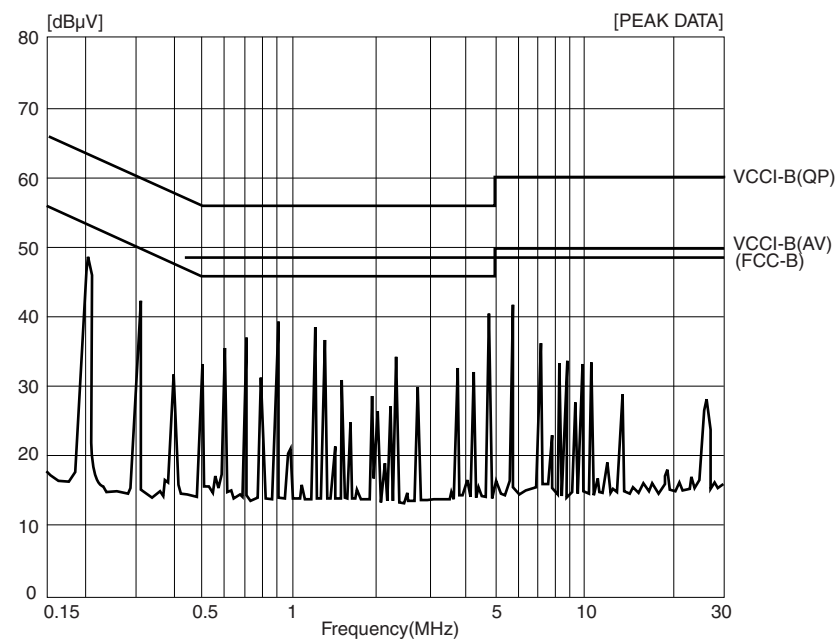
AC.100V TYPE: HOLD UP TIME



AC.200V TYPE: HOLD UP TIME



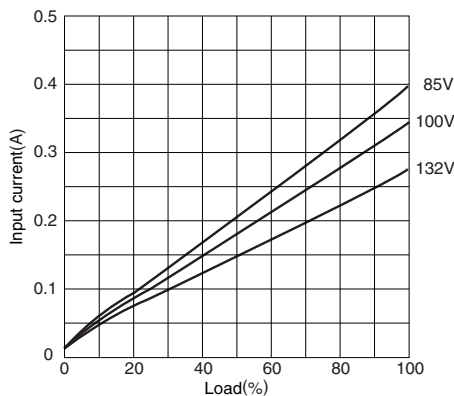
CONDUCTIVE NOISE EMISSION



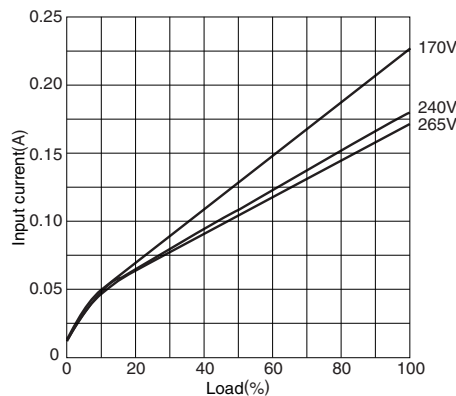
Characteristics, Functions, and Applications

JBW15W TYPE TYPICAL CHARACTERISTICS: JBW05-3R0

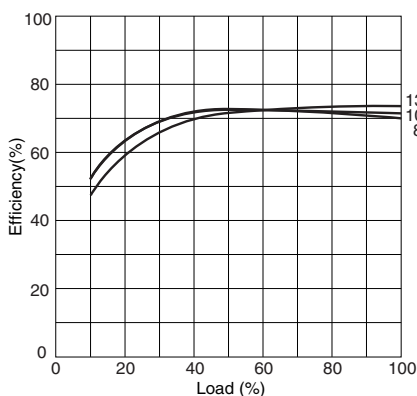
AC.100V TYPE: INPUT CURRENT



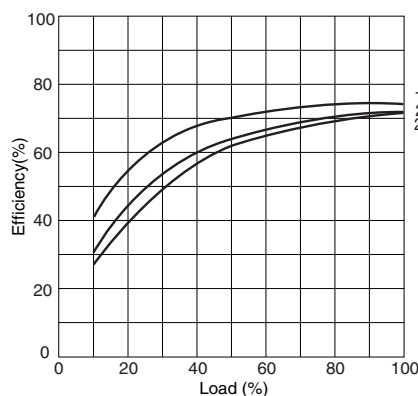
AC.200V TYPE: INPUT CURRENT



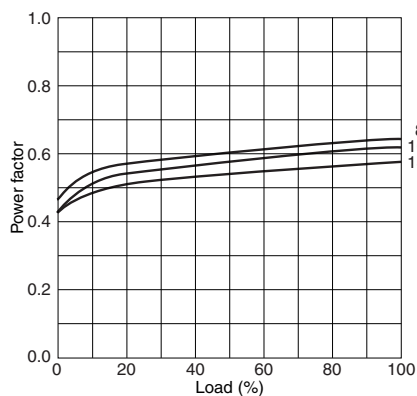
AC.100V TYPE: EFFICIENCY



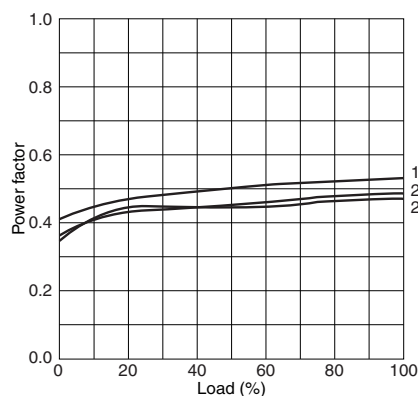
AC.200V TYPE: EFFICIENCY



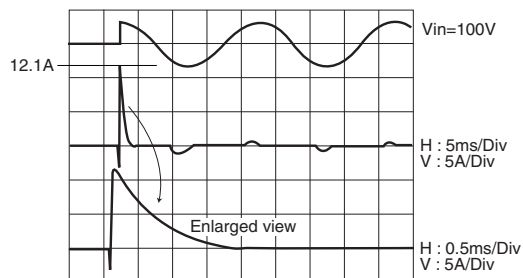
AC.100V TYPE: POWER FACTOR



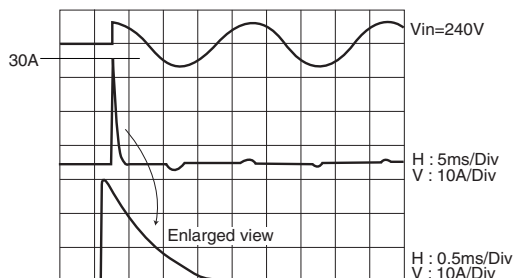
AC.200V TYPE: POWER FACTOR



AC.100V TYPE: SURGE CURRENT



AC.200V TYPE: SURGE CURRENT

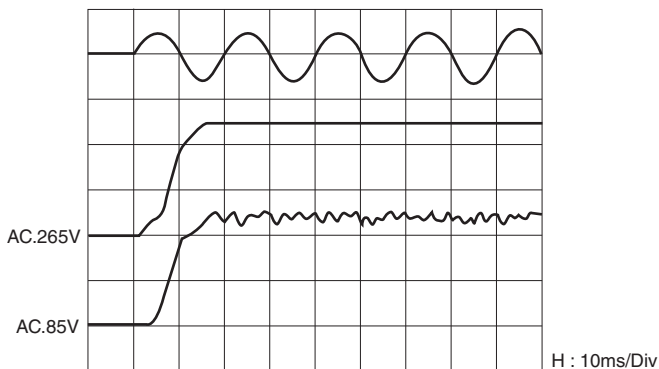


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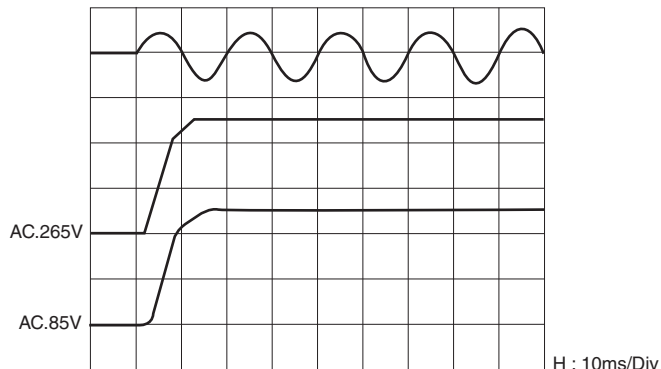
Characteristics, Functions, and Applications

JBW15W TYPE TYPICAL CHARACTERISTICS: JBW05-3R0

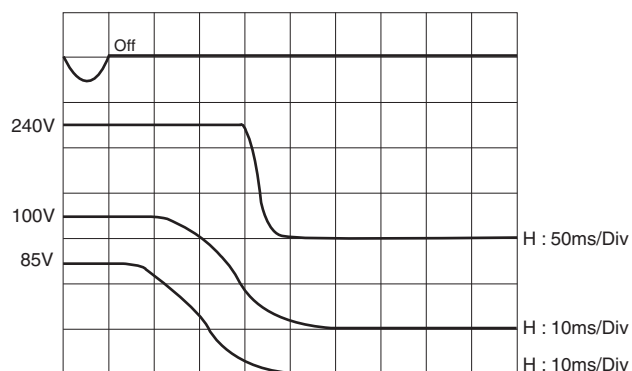
AC.100/200V TYPE: -20°C START UP CHARACTERISTICS



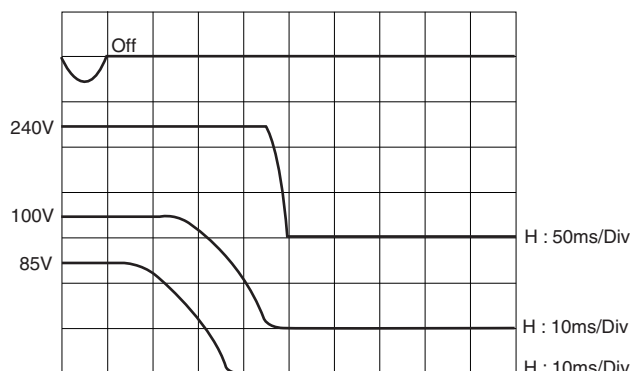
AC.100/200V TYPE: +60°C START UP CHARACTERISTICS



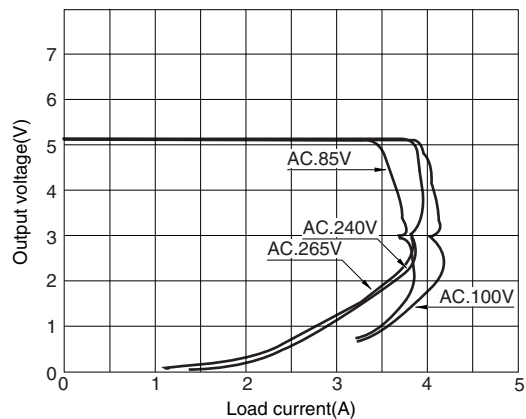
AC.100/200V TYPE: -20°C HOLD UP CHARACTERISTICS



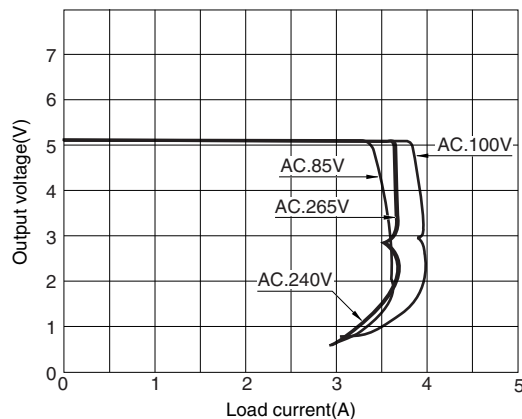
AC.100/200V TYPE: +60°C HOLD UP CHARACTERISTICS



AC.100V/200V TYPE: -20°C OVERCURRENT CURVE



AC.100V/200V TYPE: +60°C OVERCURRENT CURVE

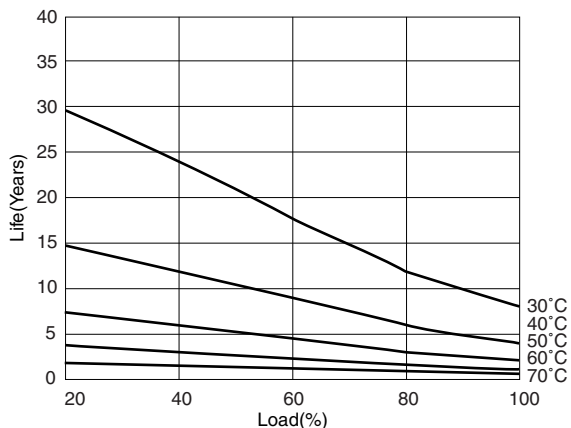


• All specifications are subject to change without notice.

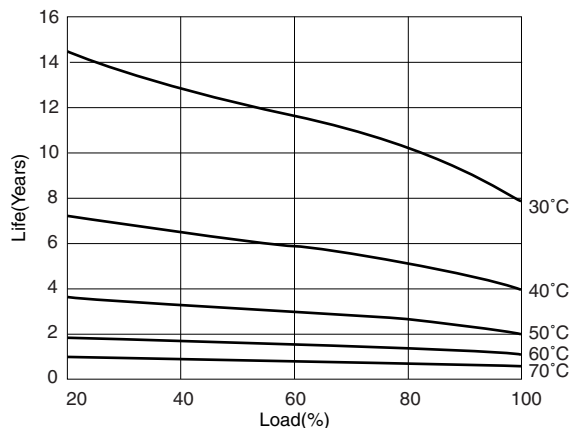
Characteristics, Functions, and Applications

JBW15W TYPE TYPICAL CHARACTERISTICS: JBW05-3R0

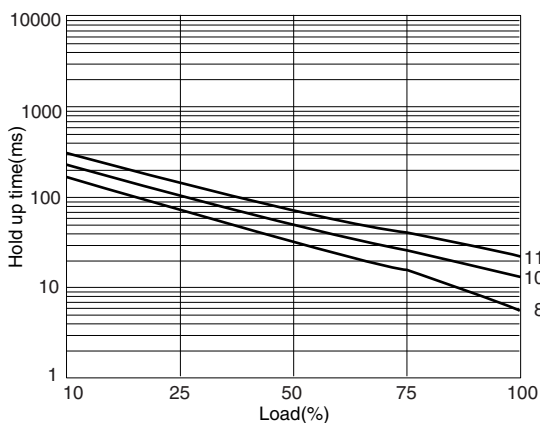
AC.100V TYPE: LIFE OF ELECTROLYTIC CAPACITOR



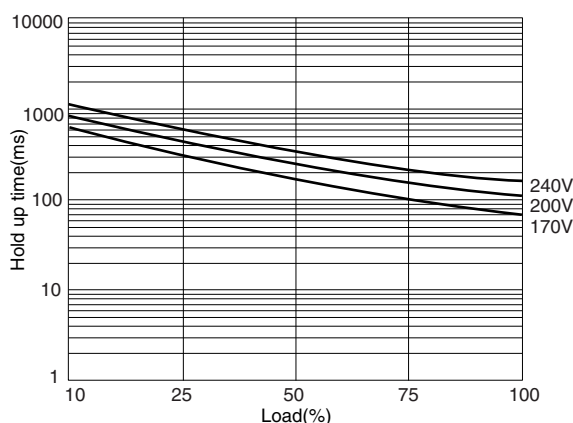
AC.200V TYPE: LIFE OF ELECTROLYTIC CAPACITOR



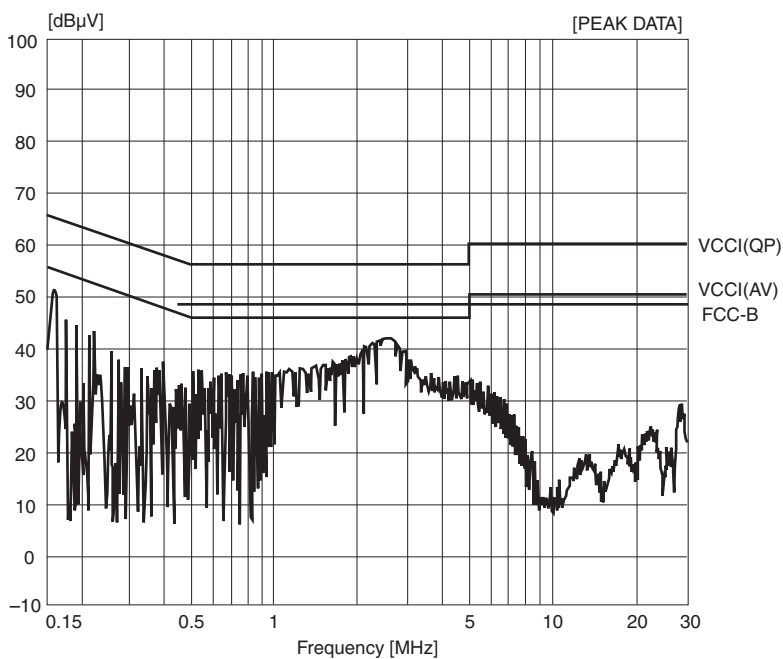
AC.100V TYPE: HOLD UP TIME



AC.200V TYPE: HOLD UP TIME



CONDUCTIVE NOISE EMISSION

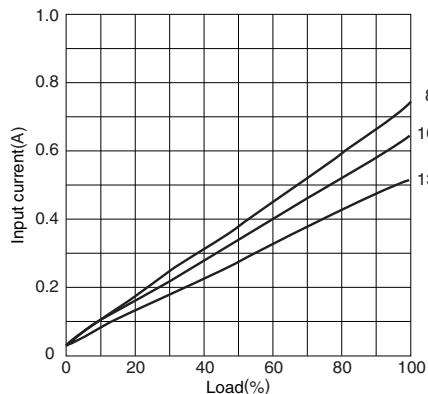


• All specifications are subject to change without notice.

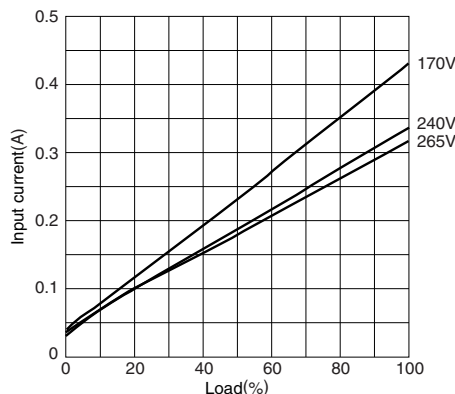
Characteristics, Functions, and Applications

JBW30W TYPE TYPICAL CHARACTERISTICS: JBW05-6R0

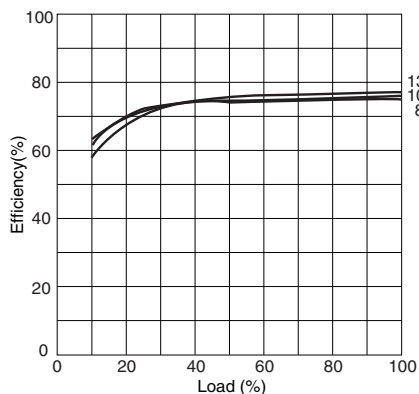
AC.100V TYPE: INPUT CURRENT



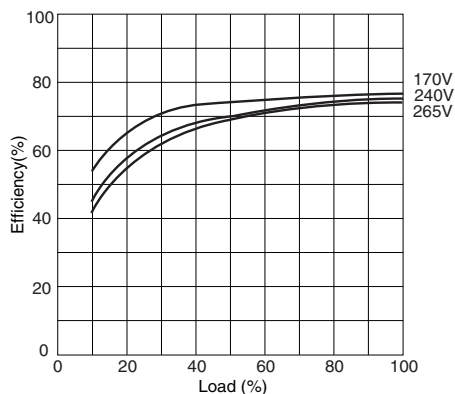
AC.200V TYPE: INPUT CURRENT



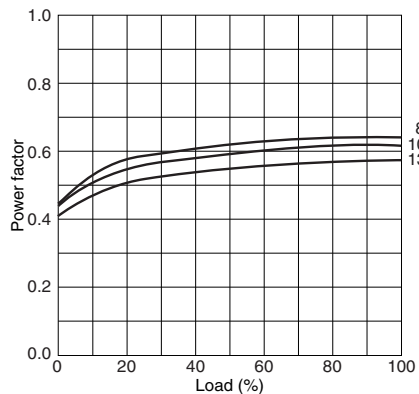
AC.100V TYPE: EFFICIENCY



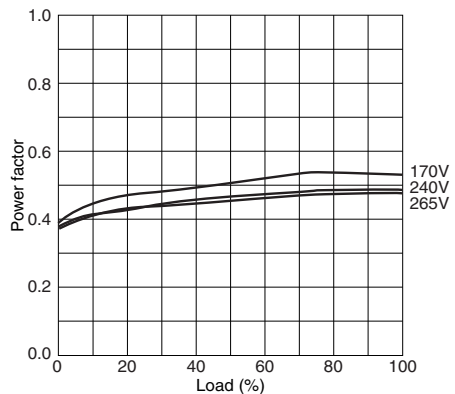
AC.200V TYPE: EFFICIENCY



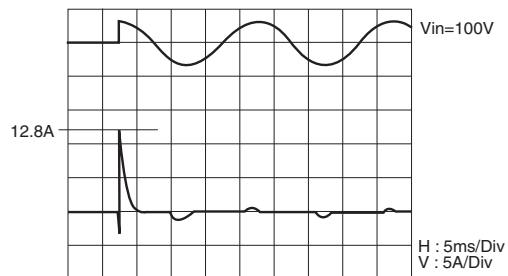
AC.100V TYPE: POWER FACTOR



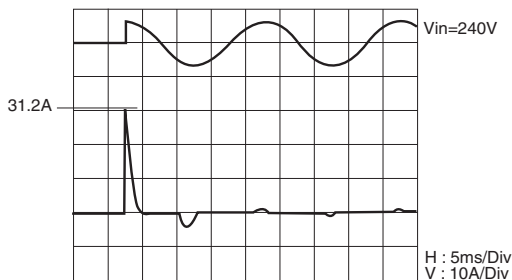
AC.200V TYPE: POWER FACTOR



AC.100V TYPE: SURGE CURRENT



AC.200V TYPE: SURGE CURRENT

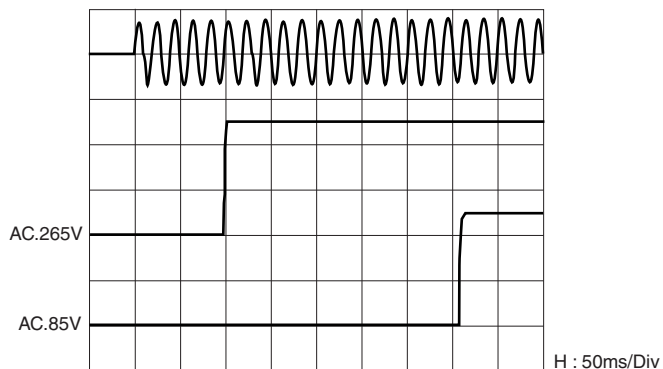


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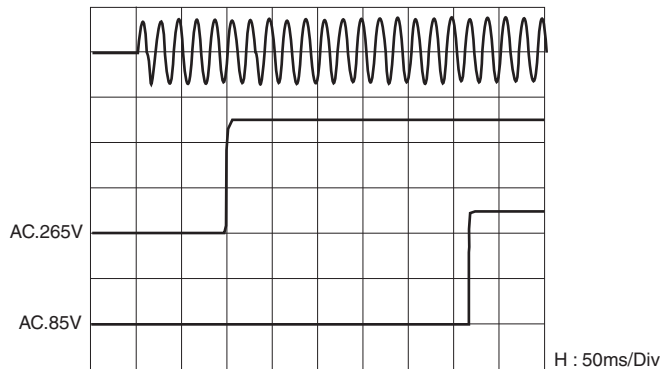
Characteristics, Functions, and Applications

JBW30W TYPE TYPICAL CHARACTERISTICS: JBW05-6R0

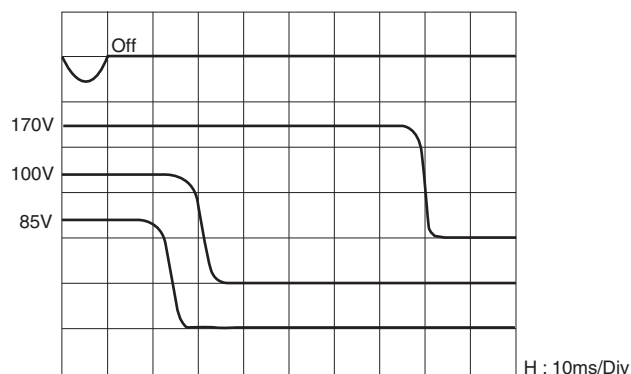
AC.100/200V TYPE: -20°C START UP CHARACTERISTICS



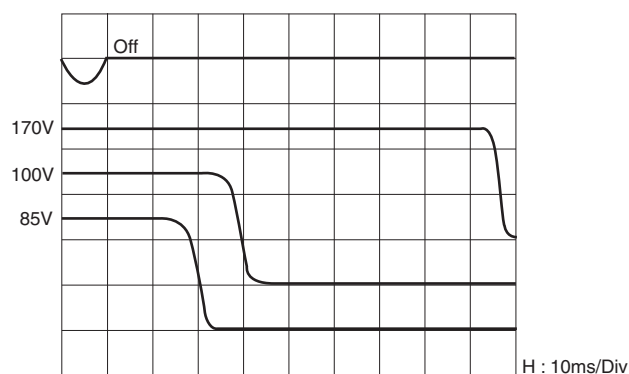
AC.100/200V TYPE: +60°C START UP CHARACTERISTICS



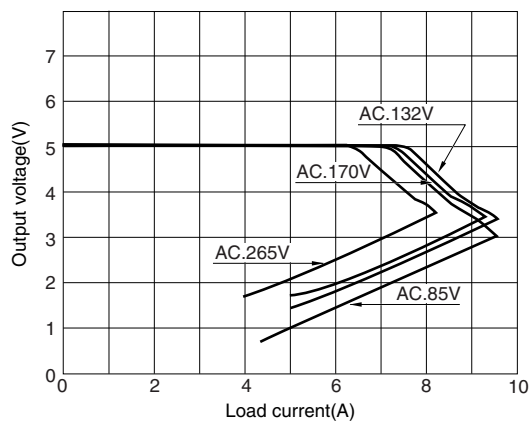
AC.100/200V TYPE: -20°C HOLD UP CHARACTERISTICS



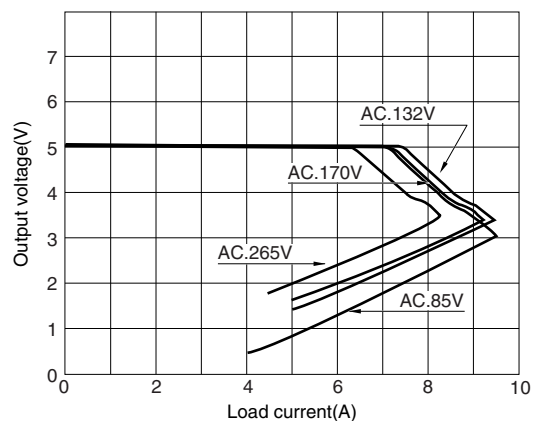
AC.100/200V TYPE: +60°C HOLD UP CHARACTERISTICS



AC.100V/200V TYPE: -20°C OVERCURRENT CURVE



AC.100V/200V TYPE: +60°C OVERCURRENT CURVE

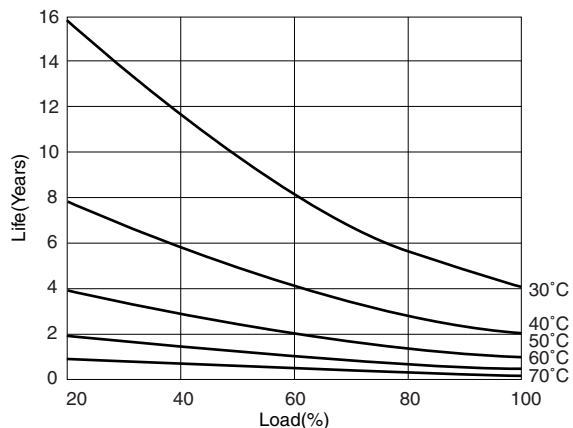


• All specifications are subject to change without notice.

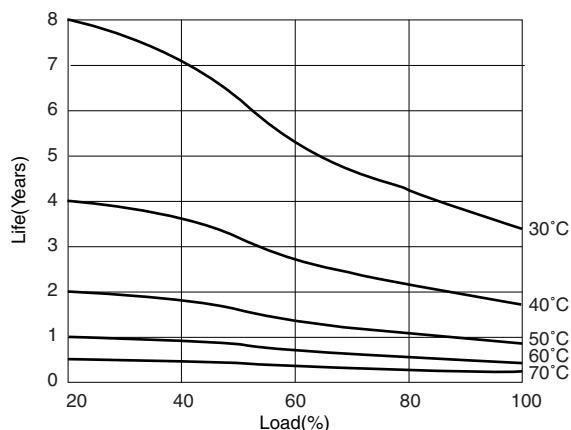
Characteristics, Functions, and Applications

JBW30W TYPE TYPICAL CHARACTERISTICS: JBW05-6R0

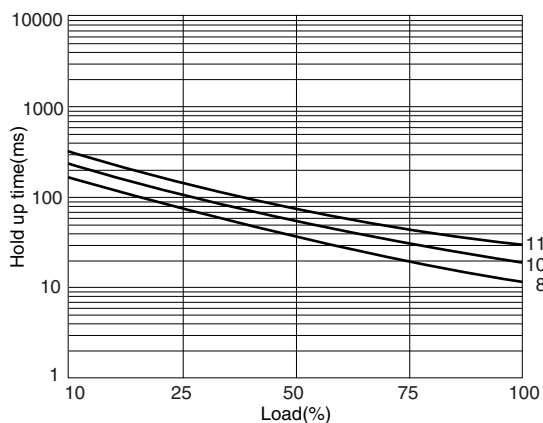
AC.100V TYPE: LIFE OF ELECTROLYTIC CAPACITOR



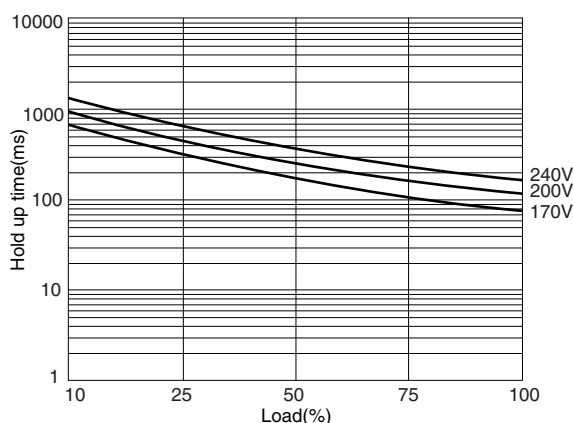
AC.200V TYPE: LIFE OF ELECTROLYTIC CAPACITOR



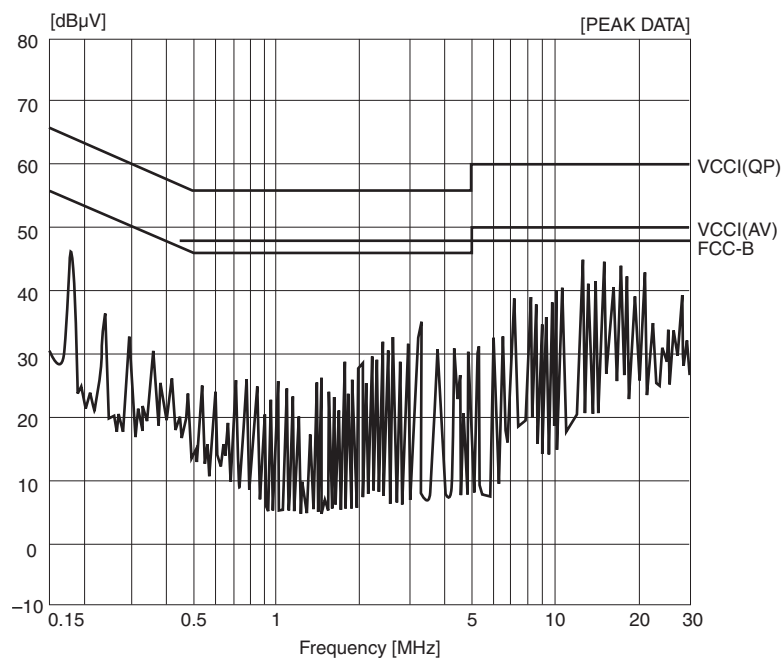
AC.100V TYPE: HOLD UP TIME



AC.200V TYPE: HOLD UP TIME



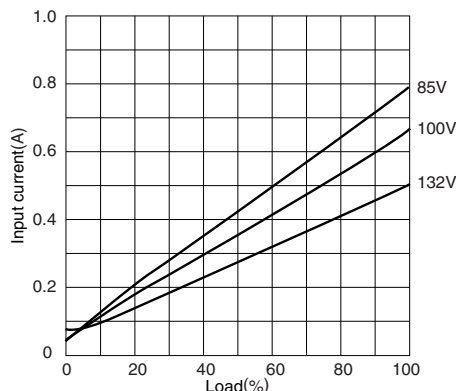
CONDUCTIVE NOISE EMISSION



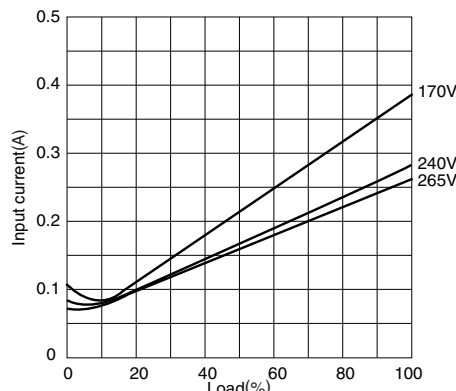
Characteristics, Functions, and Applications

JBW50W TYPE TYPICAL CHARACTERISTICS: JBW05-10R

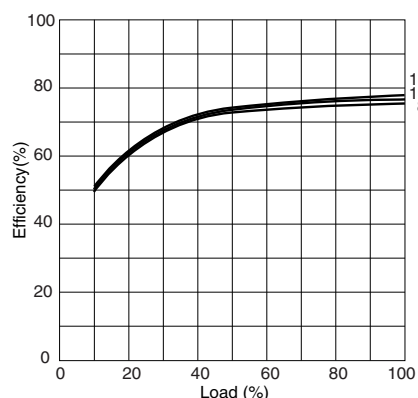
AC.100V TYPE: INPUT CURRENT



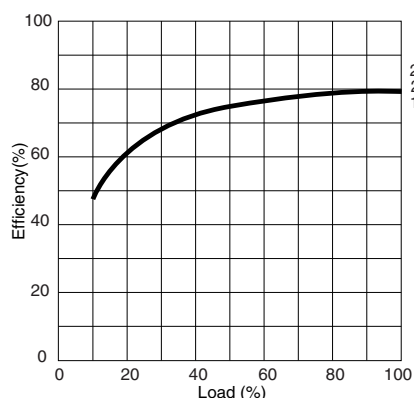
AC.200V TYPE: INPUT CURRENT



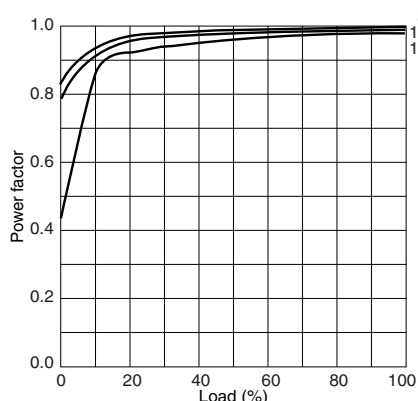
AC.100V TYPE: EFFICIENCY



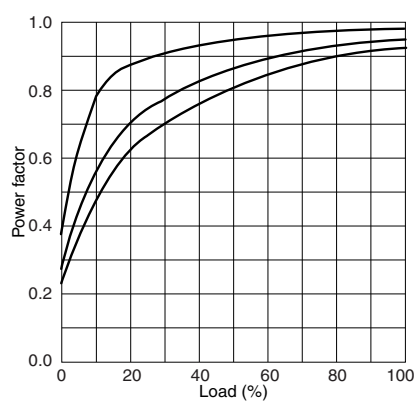
AC.200V TYPE: EFFICIENCY



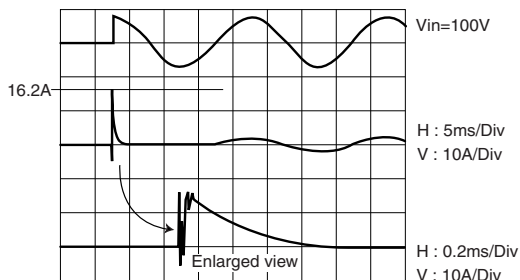
AC.100V TYPE: POWER FACTOR



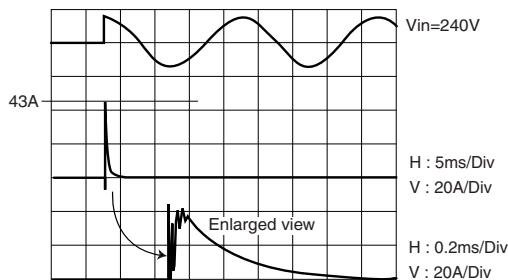
AC.200V TYPE: POWER FACTOR



AC.100V TYPE: SURGE CURRENT



AC.200V TYPE: SURGE CURRENT

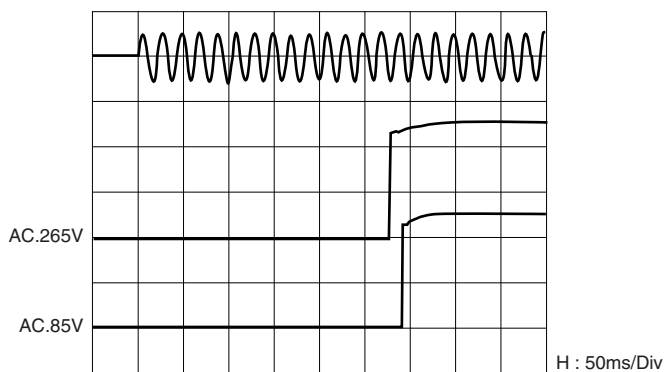


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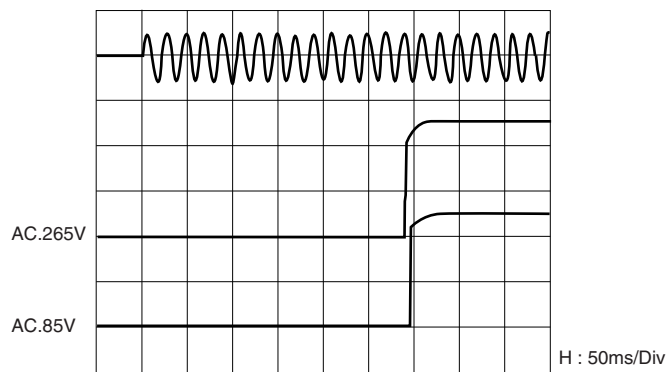
Characteristics, Functions, and Applications

JBW50W TYPE TYPICAL CHARACTERISTICS: JBW05-10R

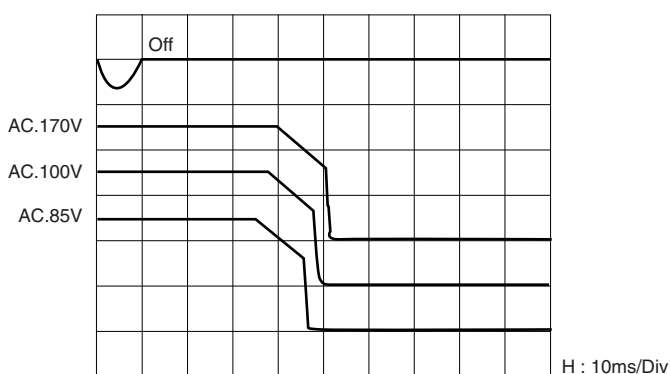
AC.100/200V TYPE: -20°C START UP CHARACTERISTICS



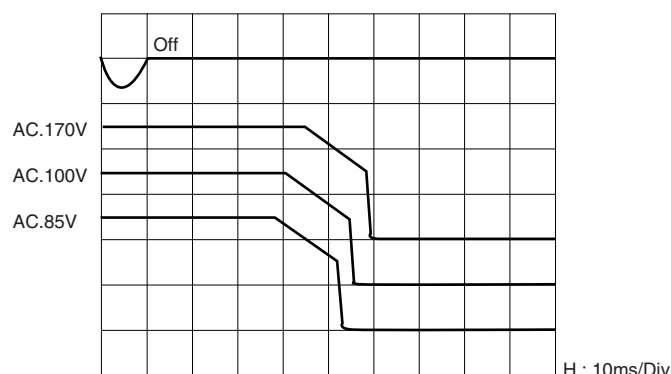
AC.100/200V TYPE: +60°C START UP CHARACTERISTICS



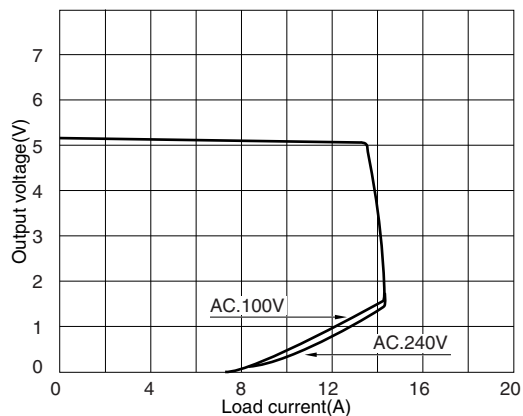
AC.100/200V TYPE: -20°C HOLD UP CHARACTERISTICS



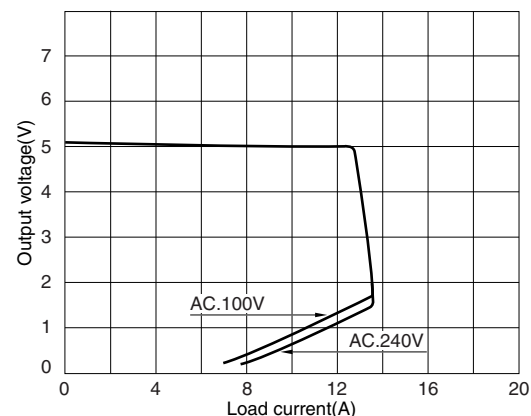
AC.100/200V TYPE: +60°C HOLD UP CHARACTERISTICS



AC.100V/200V TYPE: -20°C OVERCURRENT CURVE



AC.100V/200V TYPE: +60°C OVERCURRENT CURVE

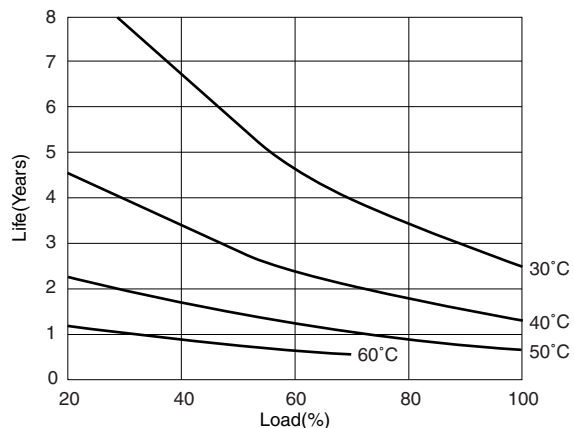


• All specifications are subject to change without notice.

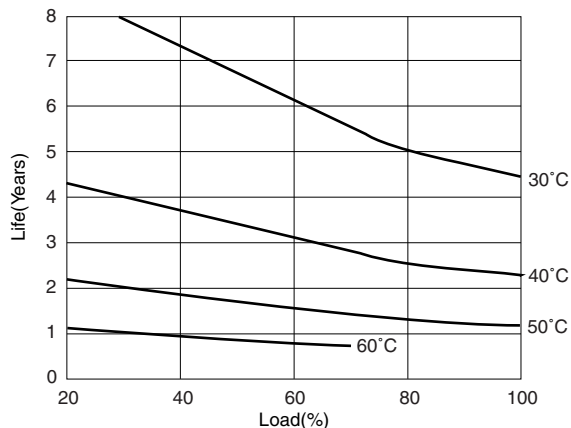
Characteristics, Functions, and Applications

JBW50W TYPE TYPICAL CHARACTERISTICS: JBW05-10R

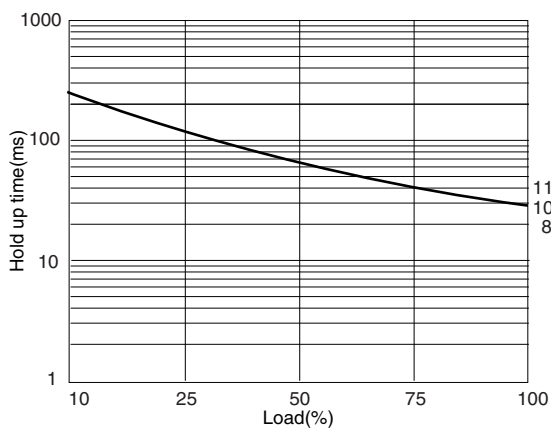
AC.100V TYPE: LIFE OF ELECTROLYTIC CAPACITOR



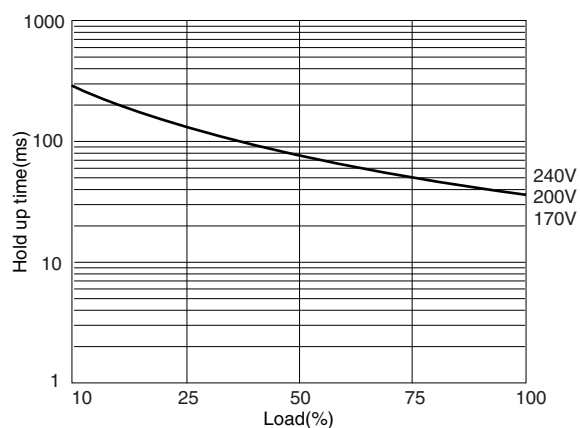
AC.200V TYPE: LIFE OF ELECTROLYTIC CAPACITOR



AC.100V TYPE: HOLD UP TIME



AC.200V TYPE: HOLD UP TIME



CONDUCTIVE NOISE EMISSION

