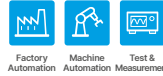


# PJB (24 V)



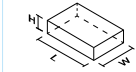
- Power Boost of 200% for 10 seconds
- High PF > 0.97
- Low Inrush Current / Low Leakage Current
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Design compliant with Japan PSE (DENAN) for 150 W - 300 W

## Applications



| Output                                   |                     | PJB-24V100W□□□                | PJB-24V150W□□□             | PJB-24V240W□□□                                                                       | PJB-24V300W□□□           |
|------------------------------------------|---------------------|-------------------------------|----------------------------|--------------------------------------------------------------------------------------|--------------------------|
| Output Voltage                           |                     | 24V                           | 24V                        | 24V                                                                                  | 24V                      |
| Output Voltage Range                     |                     | 21.6-26.4 V                   | 21.6-26.4 V                | 21.6-26.4 V                                                                          | 21.6-26.4 V              |
| Output Current                           |                     | 4.3 A (8.6 A for 10 s)        | 6.3 A (12.6 A for 10 s)    | 10.0 A (20.0 A for 10 s)                                                             | 12.5 A (22.5 A for 10 s) |
| Output Power                             |                     | 103.2 W (206.4 W for 10 s)    | 151.2 W (302.4 W for 10 s) | 240 W (480 W for 10 s)                                                               | 300 W (600 W for 10 s)   |
| PARD (20 MHz)                            |                     | < 150 mVpp                    |                            |                                                                                      |                          |
| Hold-up Time                             | 100 V <sub>AC</sub> | 20 ms typ.                    |                            |                                                                                      |                          |
| Input                                    |                     |                               |                            |                                                                                      |                          |
| Phase Input                              |                     | Single Phase                  |                            |                                                                                      |                          |
| Input Voltage Range                      |                     | 85-264 V <sub>AC</sub>        |                            |                                                                                      |                          |
| Input Frequency                          |                     | 47-63 Hz                      |                            |                                                                                      |                          |
| Input Current                            | 100 V <sub>AC</sub> | 1.30 A typ.                   | 1.90 A typ.                | 2.80 A typ.                                                                          | 4.10 A typ.              |
|                                          | 200 V <sub>AC</sub> | 0.65 A typ.                   | 0.95 A typ.                | 1.50 A typ.                                                                          | 2.00 A typ.              |
| Efficiency <sup>1)</sup><br>at 100% Load | 100 V <sub>AC</sub> | 86.5% typ.                    | 88.0% typ.                 | 91.0% typ.                                                                           |                          |
|                                          | 200 V <sub>AC</sub> | 89.0% typ.                    | 90.5% typ.                 | 93.5% typ.                                                                           |                          |
| Max Inrush<br>Current<br>(Cold Start)    | 100 V <sub>AC</sub> | 15 A typ.                     |                            |                                                                                      |                          |
|                                          | 200 V <sub>AC</sub> | 30 A typ.                     |                            |                                                                                      |                          |
| Power Factor                             | 100 V <sub>AC</sub> | 0.98 typ.                     |                            |                                                                                      | 0.99 typ.                |
|                                          | 200 V <sub>AC</sub> | 0.97 typ.                     | 0.95 typ.                  | 0.97 typ.                                                                            | 0.95 typ.                |
| Leakage Current                          | 100 V <sub>AC</sub> | < 0.2 mA                      |                            |                                                                                      |                          |
|                                          | 240 V <sub>AC</sub> | < 0.4 mA                      |                            |                                                                                      |                          |
| Mechanical                               |                     |                               |                            |                                                                                      |                          |
| Case Cover / Chassis                     |                     | SGCC                          |                            |                                                                                      |                          |
| Dimensions <sup>2)</sup><br>(L × W × H)  | mm                  | 155 × 62 × 33.5               | 160 × 75 × 37              | 180 × 84 × 42                                                                        | 222 × 95 × 53.6          |
|                                          | inch                | 6.10 × 2.44 × 1.32            | 6.30 × 2.95 × 1.46         | 7.09 × 3.31 × 1.65                                                                   | 8.74 × 3.74 × 2.11       |
| Unit Weight <sup>2)</sup>                | kg                  | 0.26                          | 0.31                       | 0.44                                                                                 | 0.64                     |
|                                          | lb                  | 0.57                          | 0.68                       | 0.97                                                                                 | 1.41                     |
| Cooling System                           |                     | Convection                    |                            |                                                                                      |                          |
| MTBF <sup>3)</sup>                       |                     | > 200,000 hrs                 |                            |                                                                                      |                          |
| Environment                              |                     |                               |                            |                                                                                      |                          |
| Operating Temperature <sup>4)</sup>      |                     | -10°C to +70°C                |                            |                                                                                      |                          |
| Storage Temperature                      |                     | -25°C to +75°C                |                            | -25°C to +80°C                                                                       |                          |
| Operating Humidity                       |                     | 5 to 90% RH (Non-Condensing)  |                            |                                                                                      |                          |
| Operating Altitude                       |                     | 0 to 5,000 m (0 to 16,400 ft) |                            | ITE Application:<br>0 to 5,000 m (0 to 16,400 ft)      0 to 5,000 m (0 to 16,400 ft) |                          |

### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature.
- 2) Open Frame (without chassis and cover).
- 3) MTBF as per JEITA RCR-9102B.
- 4) Refer power de-rating in the product datasheet.
- 5) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

# PJH (24 V, 36 V)



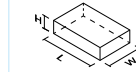
- Household approval to IEC/EN 60335-1
- Available for Class I or Class II (double isolation) configuration
- 300 W with fan cooled and up to 240 W convection cooled
- Standard industrial footprint of 3" × 5"
- Built-in active PFC, remote ON/OFF, remote sense, power good signal
- No load input power consumption < 0.5 W and low earth leakage current < 0.75 mA

## Applications



| Output                                   |                     | PJH-24V300WBBA                                                      |                    | PJH-24V300WBBA                                       |                    | PJH-36V300WBBA                                       |  | PJH-36V300WBBA                                       |  |
|------------------------------------------|---------------------|---------------------------------------------------------------------|--------------------|------------------------------------------------------|--------------------|------------------------------------------------------|--|------------------------------------------------------|--|
| Output Voltage                           |                     | V1: 24 V, V <sub>SB</sub> : 5 V                                     |                    | V1: 24 V, V <sub>SB</sub> : 12 V                     |                    | V1: 36 V, V <sub>SB</sub> : 5 V                      |  | V1: 36 V, V <sub>SB</sub> : 12 V                     |  |
| Output Voltage Range                     |                     | V1: 22.8-25.2 V, V <sub>SB</sub> : Fixed                            |                    | V1: 22.8-25.2 V, V <sub>SB</sub> : Fixed             |                    | V1: 34.2-37.8 V, V <sub>SB</sub> : Fixed             |  | V1: 34.2-37.8 V, V <sub>SB</sub> : Fixed             |  |
| Output Current                           |                     | V1: 0-12.5 A<br>V <sub>SB</sub> : 0-1.2 A                           |                    | V1: 0-12.5 A<br>V <sub>SB</sub> : 0-0.5 A            |                    | V1: 0-8.3 A<br>V <sub>SB</sub> : 0-1.2 A             |  | V1: 0-8.3 A<br>V <sub>SB</sub> : 0-0.5 A             |  |
| Output Power                             |                     | 240 W (Convection)<br>300 W (with 10 CFM Forced Air)                |                    | 240 W (Convection)<br>300 W (with 10 CFM Forced Air) |                    | 240 W (Convection)<br>300 W (with 10 CFM Forced Air) |  | 240 W (Convection)<br>300 W (with 10 CFM Forced Air) |  |
| PARD (20MHz)                             |                     | V1: < 240 mVpp, V <sub>SB</sub> : < 120 mVpp                        |                    |                                                      |                    | V1: < 360 mVpp, V <sub>SB</sub> : < 120 mVpp         |  |                                                      |  |
| Hold-up Time                             | 115 V <sub>AC</sub> | > 12 ms (240 W)<br>> 10 ms (300 W)                                  |                    |                                                      |                    |                                                      |  |                                                      |  |
|                                          | 230 V <sub>AC</sub> |                                                                     |                    |                                                      |                    |                                                      |  |                                                      |  |
| Input                                    |                     |                                                                     |                    |                                                      |                    |                                                      |  |                                                      |  |
| Phase Input                              |                     | Single Phase                                                        |                    |                                                      |                    |                                                      |  |                                                      |  |
| Input Voltage Range                      |                     | 90-264 V <sub>AC</sub>                                              |                    |                                                      |                    |                                                      |  |                                                      |  |
| Input Frequency                          |                     | 47-63 Hz                                                            |                    |                                                      |                    |                                                      |  |                                                      |  |
| Input Current                            | 115 V <sub>AC</sub> | < 4.0 A                                                             | < 4.0 A            | < 4.0 A                                              | < 4.0 A            |                                                      |  |                                                      |  |
|                                          | 230 V <sub>AC</sub> | < 2.0 A                                                             | < 2.0 A            | < 2.0 A                                              | < 2.0 A            |                                                      |  |                                                      |  |
| Efficiency <sup>1)</sup><br>at 100% Load | 115 V <sub>AC</sub> | > 93.0%                                                             |                    |                                                      |                    |                                                      |  |                                                      |  |
|                                          | 230 V <sub>AC</sub> | > 94.0%                                                             |                    |                                                      |                    |                                                      |  |                                                      |  |
| Max Inrush<br>Current<br>(Cold Start)    | 115 V <sub>AC</sub> | < 20 A                                                              |                    |                                                      |                    |                                                      |  |                                                      |  |
|                                          | 230 V <sub>AC</sub> | < 40 A                                                              |                    |                                                      |                    |                                                      |  |                                                      |  |
| Power Factor                             | 115 V <sub>AC</sub> | > 0.95                                                              |                    |                                                      |                    |                                                      |  |                                                      |  |
|                                          | 230 V <sub>AC</sub> | > 0.95                                                              |                    |                                                      |                    |                                                      |  |                                                      |  |
| Leakage Current                          | 240 V <sub>AC</sub> | < 0.75 mA                                                           |                    |                                                      |                    |                                                      |  |                                                      |  |
| Mechanical                               |                     |                                                                     |                    |                                                      |                    |                                                      |  |                                                      |  |
| Case Cover / Chassis                     |                     | -                                                                   |                    |                                                      |                    |                                                      |  |                                                      |  |
| Dimensions<br>(L × W × H)                | mm                  | 127 × 76.2 × 35.8                                                   | 127 × 76.2 × 35.8  | 127 × 76.2 × 35.8                                    | 127 × 76.2 × 35.8  |                                                      |  |                                                      |  |
|                                          | inch                | 5.00 × 3.00 × 1.41                                                  | 5.00 × 3.00 × 1.41 | 5.00 × 3.00 × 1.41                                   | 5.00 × 3.00 × 1.41 |                                                      |  |                                                      |  |
| Unit Weight                              | kg                  | 0.45                                                                | 0.45               | 0.45                                                 | 0.45               |                                                      |  |                                                      |  |
|                                          | lb                  | 0.99                                                                | 0.99               | 0.99                                                 | 0.99               |                                                      |  |                                                      |  |
| Cooling System                           |                     | Convection / Forced Air                                             |                    |                                                      |                    |                                                      |  |                                                      |  |
| MTBF <sup>2)</sup>                       |                     | > 700,000hrs                                                        |                    |                                                      |                    |                                                      |  |                                                      |  |
| Environment                              |                     |                                                                     |                    |                                                      |                    |                                                      |  |                                                      |  |
| Operating Temperature <sup>3)</sup>      |                     | -25°C to +70°C                                                      |                    |                                                      |                    |                                                      |  |                                                      |  |
| Storage Temperature                      |                     | -40°C to +85°C                                                      |                    |                                                      |                    |                                                      |  |                                                      |  |
| Operating Humidity                       |                     | 5 to 95% RH (Non-Condensing)                                        |                    |                                                      |                    |                                                      |  |                                                      |  |
| Operating Altitude                       |                     | PD3: 0 to 5,000m (0 to 16,400ft)<br>PD2: 0 to 3,000m (0 to 9,840ft) |                    |                                                      |                    |                                                      |  |                                                      |  |

### Dimensions Reference



#### Notes

- 1) At 25°C ambient temperature.
- 2) MTBF as per Telcordia SR-332 (I/P: 115 V<sub>AC</sub>, O/P: 100% load).
- 3) Refer power de-rating in the product datasheet.
- 4) All parameters are specified at 25°C ambient temperature unless otherwise indicated.