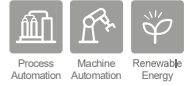


INDUSTRIAL POWER SUPPLIES

| DIN Rail Modules



CliQ^{II}

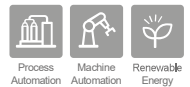


Redundancy Modules

- Wide input and output range of 22-60Vdc
- Very wide operating temperature from -40°C to +80°C
- Built-in 2 channel DC OK signal and alarm relay contact
- Support N+1 Redundancy connection
- Hazardous Locations approval to ATEX and Class I, Div 2
- Certified according to IEC/EN/UL 62368-1



CliQ^{II}

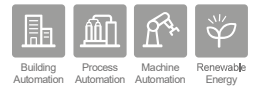


Buffer Modules

- Minimum buffering time of:
 - 250ms @ 24V/20A for DRB-24V020AB□
 - 200ms @ 24V/40A for DRB-24V040ABN
- Flexible operating buffering voltage modes: Fixed mode at 22Vdc; Dynamic mode for $V_{in} - 1V$
- Support parallel connection to extend buffering time
- Certified according to IEC/EN/UL 62368-1



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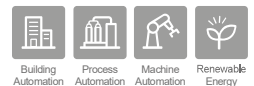


DC-UPS Module

- Full corrosion resistant aluminium casing
- Suitable for 24V system up to 40A
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- Certified according to IEC/EN/UL 62368-1



CHROME



DC-UPS Module

- Suitable for 24V system up to 10A
- Zero switch over time from loss of DC input to battery operation
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- Certified according to IEC/EN/UL 62368-1



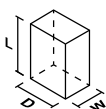
Features

- Wide input and output range of 22-60Vdc
- Very wide operating temperature from -40°C to +80°C
- Built-in 2 channel DC OK signal and alarm relay contact
- Support N+1 Redundancy connection
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2
- IP20 Certified
- Certified according to IEC/EN/UL 62368-1

Specifications

| OUTPUT | | DRR-20□ | DRR-40□ |
|-------------------------------------|------|--|--|
| Output Current | | Normal mode = 0-20Amps; Short Circuit or Overload = 25Amps max | Normal mode = 0-40Amps; Short Circuit or Overload = 50Amps max |
| Voltage Drop ($V_{in} - V_{out}$) | | Typical 0.65V | |
| INPUT | | | |
| Input Voltage Range | | 22-60Vdc | |
| Input Current | | (1+1 Redundancy) = Nom. 2 x 12.5Amps (N+1 Redundancy) = Nom. 2 x 10Amps (Single use) = Nom. 20Amps | (1+1 Redundancy) = Nom. 2 x 25Amps (N+1 Redundancy) = Nom. 2 x 20Amps (Single use) = Nom. 40Amps |
| MECHANICAL | | | |
| Case Cover / Chassis | | Aluminium | |
| Dimensions (L x W x D) | mm | 121 x 50 x 122.1 | 121 x 50 x 122.1 |
| | inch | 4.76 x 1.97 x 4.81 | 4.76 x 1.97 x 4.81 |
| Unit Weight | kg | 0.38 | 0.52 |
| | lb | 0.84 | 1.15 |
| Cooling System | | Convection | |
| LED Indicators | | Green LED DC OK: V_{in1} and V_{in2} | |
| MTBF ¹⁾ | | > 800,000 hrs | > 800,000 hrs |
| ENVIRONMENT | | | |
| Operating Temperature ²⁾ | | -40°C to +80°C | |
| Storage Temperature | | -40°C to +85°C | |
| Operating Humidity | | 5 to 95% RH (Non-Condensing) | |
| Operating Altitude | | 0 to 2,500 m (0 to 8,200 ft) | |

Dimensions Reference



Notes

- 1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24Vdc, O/P: 100% load) for vertical mounting orientation.
- 2) Refer power de-rating in the product datasheet.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



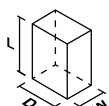
Features

- Minimum buffering time of:
 - 250ms @ 24V/20A for DRB-24V020AB□
 - 200ms @ 24V/40A for DRB-24V040ABN
- Flexible operating buffering voltage modes:
 - Fixed mode at 22Vdc; Dynamic mode for $V_{in} - 1V$
- Support parallel connection to extend buffering time
- Conformal coating on PCBAs to protect against common dust and chemical pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2 (DRB-24V020ABA)
- Certified according to IEC/EN/UL 62368-1

Specifications

| OUTPUT | | DRB-24V020AB□ | DRB-24V040ABN |
|-------------------------------------|------|---|---|
| Output Voltage | | 24Vdc typ. (Depends on V_{in}) | 24Vdc typ. (Depends on V_{in}) |
| Output Voltage Range | | 22-28V (Switch = "Fix 22V" buffering starts if terminal voltage falls below 22V) (Switch = " $V_{in} - 1V$ " buffering starts if terminal voltage is decreased by more than 1V) | |
| Output Current | | 20.0A Max | 40.0A Max |
| PARD (20MHz) | | < 200mVpp, Buffering Mode | < 350mVpp, Buffering Mode |
| Buffer Time | | 250ms Min @ 24V/20A load, 5s Min @ 24V/1A load | 200ms Min @ 24V/40A load, 8s Min @ 24V/1A load |
| INPUT | | | |
| Input Voltage Range | | 22.8-28.8Vdc | |
| Input Current | | Charging Mode: < 0.6A | Charging Mode: < 0.6A |
| Input Power | | 2.5W average (Standby Mode) | |
| Charging Time | | < 30s | < 40s |
| Polarity Protection | | Yes | Yes |
| MECHANICAL | | | |
| Case Cover / Chassis | | Aluminium | |
| Dimensions (L × W × D) | mm | 121 × 70 × 120.1 | 121 × 70 × 120.1 |
| | inch | 4.76 × 2.76 × 4.73 | 4.76 × 2.76 × 4.73 |
| Unit Weight | kg | 0.76 | 0.90 |
| | lb | 1.68 | 1.98 |
| Cooling System | | Convection | |
| LED Indicators | | Green LED Off = Unit is discharged or $V_{in} < 22Vdc$ Green LED On = Unit is fully charged (Ready) Green LED Flashing Slowly (1Hz) = Unit is charging Green LED Flashing Quickly (10Hz) = Unit is discharging (Buffering) | |
| MTBF ¹⁾ | | > 800,000 hrs | > 800,000 hrs |
| ENVIRONMENT | | | |
| Operating Temperature ²⁾ | | -25°C to +75°C | |
| Storage Temperature | | -25°C to +85°C | |
| Operating Humidity | | 5 to 95% RH (Non-Condensing) | |
| Operating Altitude | | 0 to 2,500 m (0 to 8,200 ft) | |

Dimensions Reference



Notes

- 1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24Vdc, O/P: 100% load) for vertical mounting orientation.
- 2) Refer power de-rating in the product datasheet.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.



Features

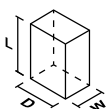
- Full corrosion resistant aluminium casing
- Suitable for 24V system up to 40A
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- High MTBF > 500,000 hrs per Telcordia SR-332
- Conformal coating option on PCBAs to protect against common dust and chemical pollutants
- Certified according to IEC/EN/UL 62368-1



Specifications

| OUTPUT | | DRU-24V40ABN |
|-------------------------------------|------|--|
| Output Voltage Range | | 23-28Vdc |
| Output Current | | 40.0A Max |
| Output Power | | 960W Max |
| INPUT | | |
| Input Voltage Range | | 24-28Vdc |
| Input Current | | Charging Mode: 2.0A ± 1.0A |
| Charging Time | | < 3hr ± 1 hr (for battery 24V/15AH) |
| Efficiency | | Charging Mode: > 70.0% Buffering Mode: > 99.0% |
| MECHANICAL | | |
| Case Cover / Chassis | | Aluminium |
| Dimensions (L × W × D) | mm | 121 × 50 × 117.3 |
| | inch | 4.76 × 1.97 × 4.62 |
| Unit Weight | kg | 0.60 |
| | lb | 1.32 |
| Cooling System | | Convection |
| LED Indicators | | Green LED ON = Battery is fully charged Green LED Flashing = Battery is charging Orange LED ON = Battery 24V or DC 24V reverse polarity Orange LED Flashing = Battery is discharging Red LED ON = Battery fail (no battery is connected) |
| MTBF ¹⁾ | | > 500,000 hrs |
| ENVIRONMENT | | |
| Operating Temperature ²⁾ | | -20°C to +60°C |
| Storage Temperature | | -40°C to +85°C |
| Operating Humidity | | 5 to 95% RH (Non-Condensing) |
| Operating Altitude | | 0 to 3,000 m (0 to 9,840 ft) |

Dimensions Reference



Notes

- 1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24Vdc, O/P: 100% load) for vertical mounting orientation.
- 2) Refer power de-rating in the product datasheet.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.

CHROME

Features

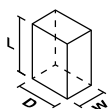


- Suitable for 24V system up to 10A
- Zero switch over time from loss of DC input to battery operation
- Built-in diagnostic monitoring for DC OK, Discharge and Battery Fail by relay contacts
- Full power for the entire temperature range from -20°C to +60°C
- LED indicator for DC OK, Battery Charging, Battery Discharging, Battery Fail and Battery Reverse Polarity
- High MTBF > 500,000 hrs as per Telcordia SR-332
- Certified according to IEC/EN/UL 62368-1

Specifications

| OUTPUT | | DRU-24V10ACZ |
|-------------------------------------|------|--|
| Output Voltage Range | | 23-28Vdc |
| Output Current | | 10.0A Max |
| Output Power | | 240W Max |
| INPUT | | |
| Input Voltage Range | | 24-28Vdc |
| Input Current | | Charging Mode: 0.5A ± 0.1A |
| Charging Time | | < 25hr ± 5 hr (for battery 24V/12AH) |
| Efficiency | | Charging Mode: > 70.0% Buffering Mode: > 99.0% |
| MECHANICAL | | |
| Case Cover / Chassis | | Plastic |
| Dimensions (L × W × D) | mm | 91 × 71 × 55.6 |
| | inch | 3.58 × 2.80 × 2.19 |
| Unit Weight | kg | 0.14 |
| | lb | 0.31 |
| Cooling System | | Convection |
| LED Indicators | | Green LED ON = Battery is fully charged Green LED Flashing = Battery is charging Orange LED ON = Battery 24V or DC 24V reverse polarity Orange LED Flashing = Battery is discharging Red LED ON = Battery fail (no battery is connected) |
| MTBF ¹⁾ | | > 500,000 hrs |
| ENVIRONMENT | | |
| Operating Temperature ²⁾ | | -20°C to +60°C |
| Storage Temperature | | -40°C to +85°C |
| Operating Humidity | | 5 to 95% RH (Non-Condensing) |
| Operating Altitude | | 0 to 3,000 m (0 to 9,840 ft) |

Dimensions Reference



Notes

- 1) MTBF as per Telcordia SR-332 (Confidence level: 90%, I/P: 24Vdc, O/P: 100% load) for vertical mounting orientation.
- 2) Refer power de-rating in the product datasheet.
- 3) All parameters are specified at 25°C ambient temperature unless otherwise indicated.