

## Buffer Modules

## 24V 20A / DRB-24V020ABA



## Highlights &amp; Features

- Full corrosion resistant Aluminium chassis
- Long minimum buffering time of 250ms @ 24V/20A
- Can connect in parallel to increase buffering time
- Charging time of < 30 seconds
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Designed for Class I Div. 2 Hazardous Locations environments (DRB-24V020ABA)
- IP20 Compliant
- Overvoltage / Overcurrent / Short Circuit Protections
- Meets worldwide safety requirements
- RoHS Directive 2011/65/EU Compliant
- Reliable design, with expected life of 10 years

## Model Numbering

DR	B -	24V	020A	B	<input type="checkbox"/>
DIN Rail	Buffer Module	Output Voltage	Output Current	CIQ II Series	A - Metal Case, with Class I, Div 2 N - Metal Case, without Class I, Div 2

## Dimensions (L x W x D) :

121 x 70 x 120.1 mm

4.76" x 2.76" x 4.73"

## Unit Weight :

0.76 kg (1.68 lb)

Tags : DRB-24V020ABN

## Output

<b>Nominal Output Voltage</b>	24V
<b>Output Voltage Adjustment Range</b>	Switch = "Fix 22V" Buffering starts if terminal voltage falls below 22V Factory Setting, Switch = "Vin-1V" Buffering starts if terminal voltage is decreased by > 1V
<b>Max Output Voltage</b>	35Vdc
<b>Output Current</b>	20A
<b>Buffering Time</b>	250ms Min @ 24V/20A Load, > 5sec Min @ 24V/1A Load
<b>PARD (20MHz)</b>	< 200mVpp @ 25°C during Buffering Mode
<b>Parallel Connection</b>	Yes
<b>Nominal Output Voltage</b>	24Vdc typ. (depends on Vin)

## Input

<b>Nominal Input Voltage</b>	24Vdc
<b>Input Voltage Range</b>	22.8-28.8Vdc
<b>Max Input Voltage</b>	35Vdc-0
<b>DC Input Voltage Range</b>	22.8-28.8Vdc
<b>Input Current</b>	Charging Mode : < 0.6A Discharging Mode : 20A Max

<b>Input Power (Standby Mode)</b>	2.5W Average
<b>Max Inrush Current</b>	< 20A
<b>Charging Time</b>	< 30sec

## Mechanical

<b>Case Cover / Chassis</b>	Aluminium
<b>Dimensions</b>	121 x 70 x 120.1 mm 4.76" x 2.76" x 4.73"
<b>Unit Weight</b>	0.76 kg (1.68 lb)
<b>Cooling System</b>	Convection

## Environment

<b>Surrounding Air Temperature operating</b>	-25°C to +75°C
<b>Surrounding Air Temperature storage</b>	-25°C to +85°C
<b>Power De-rating</b>	> 70°C de-rate power by 5% / °C
<b>Operating Humidity</b>	< 95% RH (Non-Condensing)
<b>Shock Test (Non-Operating)</b>	IEC60068-2-27, 30G (300m/S <sup>2</sup> ) for a duration of 18ms
<b>Vibration Test (Non-Operating)</b>	IEC60068-2-6, 10Hz to 500Hz @ 30m/S <sup>2</sup> (3G peak); 60 min per axis for all X, Y, Z direction

## Protections

<b>Overvoltage</b>	32V ±10%
<b>Overload / Overcurrent</b>	30A Max
<b>Short Circuit</b>	No Damage
<b>Degree of Protection</b>	IP20
<b>Protection Against Shock</b>	Class I with Primary Earth connection

## Reliability

<b>MTBF</b>	> 800,000 hrs. as per Telcordia SR-332 at Standby Mode (Buffer Module in Ready State)
-------------	---------------------------------------------------------------------------------------

## Safety

<b>Electrical Safety</b>	UL/cUL listed to UL508 and CSA C22.2 No. 107.1-01 (File no. E315355), CSA to CSA C22.2 No. 107.1-01 (File No. 181564)
<b>CE</b>	In conformance with EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC
<b>Galvanic Isolation</b>	Input & Output to Ground: 1.5KVac Signal to Ground: 1.5KVac

## EMC

<b>Emission</b>	CISPR22, EN55022, EN55011, FCC Title 47: Class B, EN61204-3
<b>Immunity</b>	EE55024 Level 3; EN61000-6-2, EN61000-4-2 Level 4

## Battery

## Downloads

### Documents

Datasheet	Uploaded on 13-Jul-2015	1.0 MB
.DXF	Uploaded on 13-Jul-2015	346 KB
Manual	Uploaded on 13-Jul-2015	1.8 MB
Mechanical Drawing	Uploaded on 13-Jul-2015	54 KB
.STP	Uploaded on 21-Jul-2015	2.3 MB
Image	Uploaded on 23-Oct-2015	154 KB

### Certificates

ATEX	Uploaded on 21-Jul-2015	1.1 MB
CB	Uploaded on 26-Aug-2016	917 KB
CE	Uploaded on 26-Aug-2016	318 KB
CSA	Uploaded on 13-Jul-2015	109 KB
EAC	Uploaded on 28-Jul-2016	1.2 MB
Hazloc	Uploaded on 13-Jul-2015	153 KB
REACH	Uploaded on 23-Sep-2016	3.0 MB
RoHS	Uploaded on 13-Oct-2016	3.3 MB
SIQ	Uploaded on 26-Aug-2016	2.1 MB