



R820H 2.0kW 48V High Efficiency DC Modular Rectifier

230v

Nominal Input Voltage

48V

Nominal Output Voltage

2.0kW

Maximum Output Power

96%

Efficiency



AC Input:

| | |
|------------------------|---|
| Nominal Voltage: | 230V |
| Voltage Range: | 85-300V(185-275V not de-rating output power) |
| Maximum Input Current: | 12A |
| Frequency Range: | 45-65Hz |
| Power Factor: | >0.99 |
| Efficiency: | >96.5% peak |
| Protection: | |
| Input Voltage: | Auto shutdown, auto restart when correct voltage restored |
| Input Inrush: | <1.5 x maximum input current |

DC Output:

| | |
|------------------|---|
| Output Ratings: | Constant power output from 48V to 60V |
| Nominal Voltage: | 48V |
| Voltage Range: | 42-58V |
| Maximum Current: | 41.7A |
| Regulation: | |
| Line: | ±0.1% |
| Load: | ±1.0%(no load to full load) |
| Hold-up Time: | >10ms for 20% output voltage drop |
| Start-up Time: | Start up delay 5 second.(varies with AC supply voltage), Walk-in delay 3 seconds at full output.(varies with DC output voltage) |

Protection:

| | |
|--------------------|--|
| Current Limit: | Adjustable to 50-100% of maximum rated current |
| Over Temperature: | Automatic current turndown, backup shutdown protection |
| Polarity Reversal: | Output fuse with crowbar diode |
| Over Voltage: | Adjustable limit |

Noise:(under nominal conditions)

| | |
|-------------|---|
| Voice Band: | <2mV rms psophometric |
| Wide Band: | 3.4KHz-150KHz: <50mV rms unweighted 150KHz-30MHz: <20mV rms unweighted |

Peak to Peak 0-20MHz:

| | |
|-------------|---------------------|
| Load Share: | <200mV peak to peak |
|-------------|---------------------|

Isolation:

| | |
|--------------------|--|
| Input to Output: | 3000V AC/10mA/1min |
| Input to Chassis: | 1500V AC/10mA/1min(VDR to chassis removed) |
| Output to Chassis: | 500V AC/10mA/1min |

Environmental:

| | |
|------------------------|--|
| Operating Temperature: | -40 to +65°C (maximum output power is derated above 55°C) |
| Storage Temperature: | -45 to +70°C |
| Humidity: | 5-95%RH(non-condensing) |
| Altitude: | <2000m, De-rate maximum ambient temperature by 4°C per 1000m above sea level |

Mechanical:

| | |
|----------------------|-----------------------|
| Dimensions, W, H, D: | 106.5mm, 41.5mm,286mm |
| Weight: | <1.85kg |

