



R830H 3.0kW 48V High Efficiency DC Modular Rectifier

AC Input:

Nominal Voltage:	230V
Voltage Range:	85-300V(185-275V not de-rating output power)
Maximum Input Current:	20A
Frequency Range:	45-65Hz
Power Factor:	>0.99 (above 75% load)
Efficiency:	>96.2% 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:	62.5A (@48V)
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:

<200mV peak to peak

Load Share:

±5%

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

230v

Nominal Input Voltage

48V

Nominal Output Voltage

3.0kW

Maximum Output Power

96%

Efficiency

