

Serenity 48V/2000W High Efficiency Rectifier



Exicom's new telecom rectifier Serenity 48V/2000W combines advanced design for reliability and an industrial leading efficiency of 96.0%. The single phase, hot pluggable fan cooled rectifier provides outstanding power density while its intelligent & advanced protection features allow users to deploy it any kind of environment – urban / rural / poor grid etc. Its compact size gives customers flexibility to meet higher power demands in tight spaces as per telecom requirements



Serenity 48V/2000W - Technical Specifications



-	AC INPUT
Voltage	85–300V ac
Frequency	45-66Hz
Maximum Current	12.0A
THD	<5%
Power Factor	Typical 0.99
Input Protection	Off < 90 – 320V ac < Off Self Protection upto 420V ac Line & Neutral input fuses
Galvanic Isolation Input to Output Input to Ground Output to Ground	3000 V ac 1500 V ac 500 V ac

DC OUTPUT

Voltage	54.0V; Adj: 42.0 - 58.0V
Output Power	2,000W above 185V ac 900W at 90V ac
Maximum Current	37.5A
Current Sharing	+/-5% of max. current
Static Voltage regulation	+/-0.5% from 10% - 100% load
Dynamic Voltage Regulation	+/-5% for 10% - 90% load
Dynamic Voltage Regulation	+/-5% for 90% - 10% load
Hold up time, Max Op. Power	>10ms; output voltage > 42Vdc
Ripple Noise	<200 mV p-p 30MHz bandwidth
Output Protection	Over Voltage Shutdown Overload Foldback Short Circuit Proof Output Fuse Protection Over Temperature Shut-Off
Efficiency	Peak 96.0%

OTHER SPECIFICATIONS Operating Temperature -10°C to +75°C, Linear derating from 45°C onwards

	J
Storage Temperature	-40°C to +85°C
Cooling	5% to 95% non-condensing
Humidity	Forced Air
Acoustic Noise	Less than 55dB(A)
MTBF	>300,000 hrs. (25°C ambient)
Communication Interface	CAN Bus
Control & Monitoring	M1000 controller
Dimensions Weight	106 x 41.5 x 360 (mm) 2.2 kg
LED Indications Green	On: No Faults Flash - Rectifier comm. Ok Slow flash - Sleep mode
Yellow (Alarms)	On - Input low / high, Rectifier in power de-rate mode Current limit Flash - Rectifier Comm. fail
Red (Alarms)	On - Abnormal temp or input shutdown, Low O/p voltage alarm, Overvoltage shutdown on output Flash - Rectifier fan fail

APPLICABLE STANDARDS

Electrical Safety	EN 60950
EMC/EMI	EN 55022, Class B
Environmental	EN 300 019-2-1/-2/-3



PART NO. DESCRIPTION

HE-513140

Web: www.exicom-ps.com

Specifications are subject to change without notice

India Sales

Sales.India@exicom.in

Plot 2A, Anath Road, Sector 18, Guragon 122015, India

APAC Sales

Sales.APAC@exicom.in

 Exicom Tele-Systems (Singapore) Pte Ltd | 7500A, Beach Road, #12-318-9, The Plaza, Singapore 199591

Africa Sales

Sales.Africa@exicom.in

Serenity 48V/2000W

• 77 / 79, Eric Moore Road, Surulere, Lagos, Nigeria

1