

DPR 3000 EnergE 96%

Single Phase Rectifier

Description

Delta's technology leading telecom rectifier DPR 3000B EnergE provides the industrial leading efficiency of 96.2%. The single phase, hot pluggable fan cooled rectifier provides the 56.8W/in³ outstanding power density. Integrated with the high efficiency rectifier DPR 3000B EnergE, Delta power solution provides an energy saving solution for network base stations, wireless applications, fixed line applications and data communications.

Applications

- Wireless applications
- Fixed line applications, data communications
- Network base stations



Specifications

Model ESR -48/60A A

1. Input

Voltage (nominal)	230V _{ACS}
Voltage (range)	90 - 300V _{AC} ; De-rating ≤ 176V _{AC}
Frequency	45 - 66Hz
Power Factor	> 0.99
Total Harmonic Distortion	< 5%
Lightening Protection	EN 61000-4-5

2. Output

Voltage (default)	-54.0V _{DC}
Voltage (adjustable range)	-43 to -58V _{DC}
Maximum Output Current	60A
Maximum Power @ nominal Input	3000W
Power Density	56.8W/in ³
Peak Efficiency	96.2%
Load Regulation	≤ ± 250mV
Ripple	≤ 150mV _{PP} & < 55mV _{RMS}
Current Sharing	≤ ± 5%
Lightening Protection	EN 61000-4-5

3. User InterFace

Alarm and Signaling	CANbus to System Controller
Indications	OK > Green > Normal Operation NL > Yellow > Output current < 5% COM > Green > Communication Status
Control & Monitoring	ORION

4. Mechanical

Dimensions (W x H x D)	84 x 41 x 265mm (3.30 x 1.61 x 10.43in)
Weight	1.3kg (3.0lb)

5. Environmental

Operating Temperature	-40 to +75 °C (40 to +167 °F) De-rating above 55°C (+131 °F)
Storage Temperature	-40 to +80 °C (40 to +176 °F)
Altitude	0 to +4000m
Related Humidity	0 – 95 % RH non-condensing
Acoustic Noise	≤ 58dBA

6. Standards

Safety	Passes TUV, CE, UL cUL; Catch the CB certificate; Complies with IEC/EN/UL60950-1 & IEC/EN/UL62368-1
EMC	EN 55022 AC Class B & DC output Class A EN 300 386
Environment	RoHS
MTBF	300k hours @ 25 °C (+77 °F)
Ordering information	ESR -48/60A A

Delta Group Website:

www.deltaww.com

Product Website:

www.deltapowersolutions.com

United States of America & Canada

Delta Greentech (USA) Corp.
2360 Campbell Creek Blvd. #530
Richardson (Texas) 75082

Central America

Delta Electronics International Mexico,
S.A. de C.V.
Via Gustavo Baz No. 2160
Col. Industrial La Loma Tlainepartla
CP 54060, Edo de Mexico

South America

DDelta Greentech (Brasil) S.A
Rua Itapeva, 26 - 3 andar - Bela Vista
01332-000 - São Paulo - SP - Brasil

Asia Pacific

Delta Electronics, Inc.
3 Tungyuan Road, Chungli Industrial Zone,
Taoyuan County 32063, Taiwan

China

Delta Electronics (Shanghai) Co., Ltd
No.182 Minyu Road, Pudong Shanghai, P.R.C.,
China

Japan

Delta Electronics (Japan), Inc
2-1-14 Shibadaimon, Minato-ku,
Tokyo 105-0012, Japan

Russia

Delta Energy Systems LLC
Vereyskaya Plaza II, office 112
121357 Moscow, Russia

Europe

Delta Energy Systems (Switzerland) AG
Freiburgstrasse 251
3010 Bern-Bümpliz, Switzerland

EN_V1 / TC