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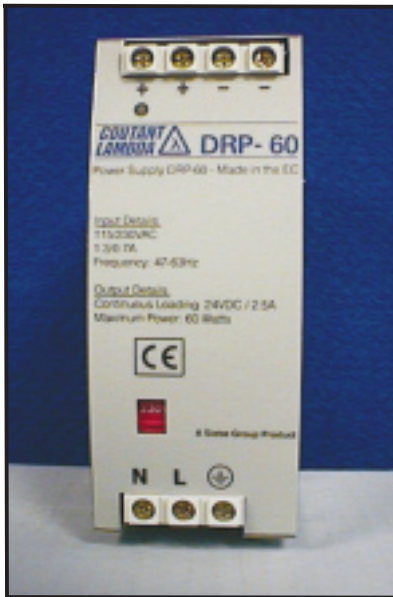
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The DRP - 60



Features

- Single Phase 230/115VAC Switchable
- Output 24V/2.5A
- High Overload Current
- Conforms to EN50081-1,2 Class B
EN55011, EN55022,
EN61000-4-2,4,5,11, VDE0160/W2

SPECIFICATIONS

Input

Input Voltage: AC110-120/220-240V (switchable), 47-63Hz
(85-132VAC/176-264VAC, 160-375VDC, see also 'Output: Continuous Loading').

Quasi-Wide-Range Input: With the switch in the 230V position the power supply unit operates at low and moderate load at any input voltage between 95 and 275VAC (cf. 'Output' below).

Note: At DC input, always leave the switch in the 230V position.

Input Current: <1.3A (switch in 115V position)
<0.7A (switch in 230V position)

DC input current at open output: typ. 5.3mA at 110VDC, 3.9mA at 300VDC (preserves battery sources)

Inrush Current: typ.25A@264VAC and cold start

To be fused with 10A, B-type. 'Thermomagnetic circuit-breaker'. In addition, the unit contains an internal fuse (not accessible).

Transient Handling Transient resistance acc. to VDE0160/W2 (750V/1.3ms), for *all* load conditions.

Hold up time >20ms at 196VAC, 24V/2.5A (see diagram overleaf)

Output

Output Voltage: 24VDC +5% -1%

Noise suppression: Output filter against common-mode noise. radiated EMI values below EN50081, Annex 1, even when using long, unscreened cables.

Continuous loading (Convection Cooling), see also diagram overleaf	Switch	AC/DC in	Iout	
	230V	176-264V	Acin	2.5A
		95-176V	Acin	1.5A
		160-375V	DCin	2.5A
		120-160V	DCin	2.0A
		80*-120V	DCin	1.5A
	115V	85-132V	ACin	2.5A

Voltage Regulation: Better than 1% Vout overall

Ripple/Noise: <25mVpp, (20 MHz bandw., 50Ω measurem.)

Overvolt. protection: typ. 32V

Parallel operation: yes, current sharing available on request.

Front Panel Indicator: Green LED, goes out at Vout<12V



Efficiency/Losses:

Efficiency: typ. 87.5% (230VAC, 24V/2.5A)
 Losses: typ. 8.6W (230VAC, 24V/2.5A)

Start/Overload Behaviour

Startup delay: typ. 0.1 s
 Rise-up time: ca. 5-20ms, depending on load
 Overload Behaviour: Special overload design (see diagram), so in case of overload.

- no disconnection, no hiccup
- High overload current (>1.5 INom), Vout is continuously reduced with increasing overload current.

Advantages:

- High short-circuit current, giving large 'start-up window': unit starts reliably even with awkward loads (capacitance, DC-DC converters, motors).
- No 'latching' such as can occur with fold-back characteristics.
- Secondary fuses operate reliably

Electromagnetic Compatibility (EMC)

Emissions: EN50081-1 (includes EN-50081-2) Class B (EN55011, EN55022) conducted and radiated noise, and EN50081, Ann. 1 (DC output)

Immunity: EN50082-2 (includes EN50082-1)

- Static Discharge (ESD): EN61000-4-2 (IEC 801-2), level 4 (withstands 8kV direct discharge, 15kV air discharge)
- Electromagnetic radiated fields: ENV 50140 (IEC801-3), Level 3(10V/m)
- Burst, asymm./unsymm: EN61000-4-4 (IEC801-4), coupled to:
 - ACin lines Level 4 (4 kV)
 - DCout lines Level 3 (2 kV)
- Surge transients EN61000-4-5,
 - Differential Isolation class 4 (4kV) (L→PE)
 - Common mode Isolation class 4 (2kV) (L→N)
- Conducted noise immunity ENV 50141 (Draft version of Immunity IEC801-6), Level 3 (10V, 150kHz-80 Mhz)
- Mains breaks: EN61000-4-11 (see 'Input')
- Transient Immunity Transient resistance acc. to VDE0160/W2 over entire load range.

Connections

Input Output Large robust screw terminals, connector size range:

- solid: 1.5-6mm²
- flexible: 1.5-4mm²
- Output: 2 connectors per output, current handling capacity: 30A each.

Design Advantages:

- All connection blocks are easy to reach as mounted at the front panel.
- Input and output are strictly apart from each other and so cannot

Reliability, Duration of Life, Tests

MTBF: 740,000h acc. to Siemens Norm SN 29500 (24V/2.5A, 230VAC, Tamb=+40°C)

Electrolytics: Input electrolytics 3,000hrs min. at +105°C
 Output electrolytics 6,000hrs min. at +105°C

Tests(for each unit):

- Functional test (100%, Test certificate enclosed)
- In-Circuit Test
- Run-in/burn-in (full load, Tamb = +60°C, On/Off cycle)

Mechanics

Dimensions and Weight

- W x H x D 50mm x 125mm x 103mm (+DIN rail)
- Free space for ventilation above/below 25mm recommended right 10mm recommended (front view)
- Weight 460g

Case

Robust metal casing with fine ventilating grid (IP20), to keep out small parts (e.g. screws)

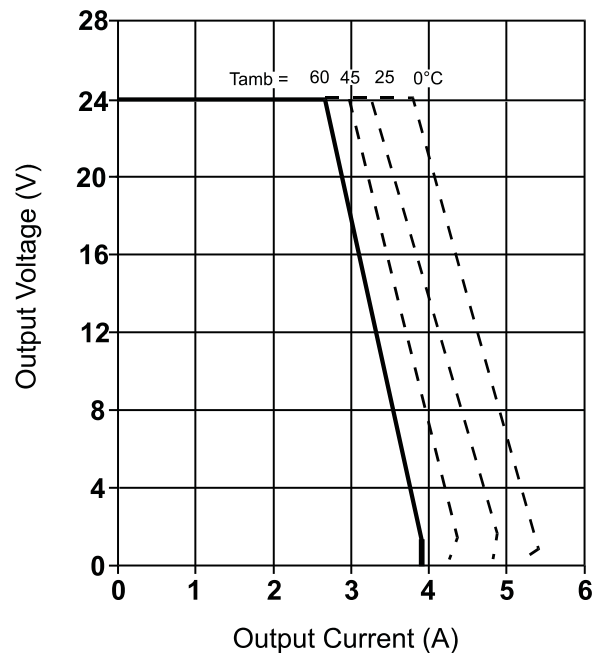
Mounting

DIN-Rail (TS35/7.5 or TS35/15)

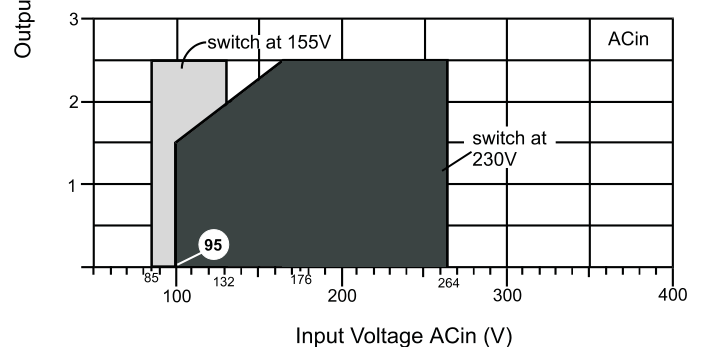
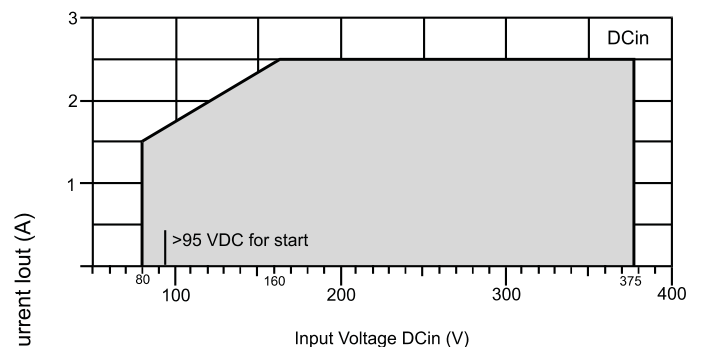
- Simple snap-on system
- Sits safely and firmly on the DIN-Rail
- No tools required to remove

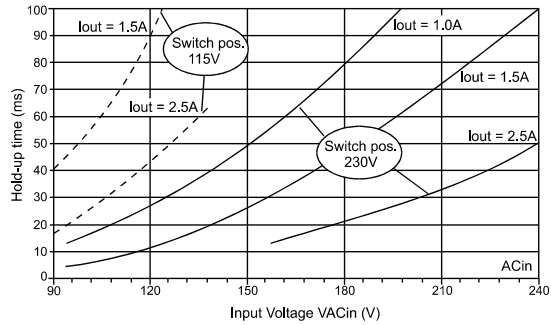
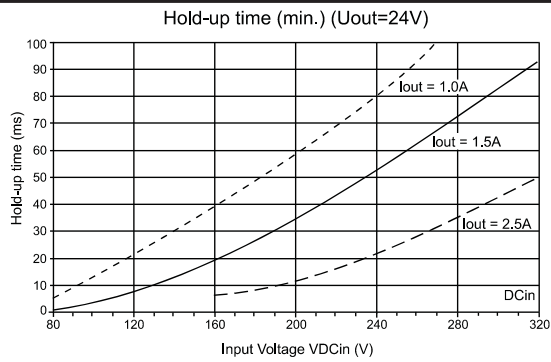
or backplane-mounted (two optional screw mounting sets required)

Output Characteristic (typ.)



Output Current over Input Voltage (min.)





The DRP Range.

Full specifications will be available on release of the products.

Please check with Sales Office for availability and delivery.

UK Sales +44 (0) 1271 856666

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POWER	MODEL NAME	COUTANT PART CODE	TYPE
40W	DRP-40-DC	N00060	24VDC input
60W	DRP-60-1	N00020	single phase, 110/230V
120W	DRP-120-1	N00030	single phase, 110/230V
240W	DRP-240-1	N00040	single phase, 110/230V
240W	DRP-240-3	N00041	3 phase, 400-500V
480W	DRP-480-1	N00011	single phase, 230V
480W	DRP-480-1S	N00013	single phase 230/110V
480W	DRP-480-3	N00010	3 phase, 400V
480W	DRP-480-3H	N00012	3 phase, 480V
720W	DRP-720-3	N00070	3 phase, 400-500V
960W	DRP-960-3	N00050	3 phase, 400-500V

In the interest of continued product development, Coutant Lambda Ltd reserves the right to alter the specification within this data sheet without notice.

AUSTRALIA

KD FISHER & CO PTY LTD
18 Benjamin Street, St Mary's, Adelaide, AUSTRALIA
Telephone: 08 2773288
Facsimile: 08 2764024

BELGIUM

MULDER-HARDENBERG N.V.
Hoge Weg 129, Stabroek 2940, BELGIUM.
Telephone: 03 6647175
Facsimile: 03 6649901

CANADA

LAMBDA ELECTRONICS (CANADA) INC.,
16829B Hymus Boulevard, Kirkland, Quebec,
CANADA, H9H 344
Telephone: 0514 6958330
Facsimile: 0514 6958168

CZECH REPUBLIC

AMTEK s.r.o.,
Kamenice 3, 658 09 Brno, CZECH REPUBLIC.
Telephone: 05 4712 5555
Facsimile: 05 4712 5556

FRANCE

LAMBDA COUTANT SA,
BP 77, 91943 Les Ulis Cedex, FRANCE.
Telephone: 01 60121487
Facsimile: 01 60122794

FINLAND

EFORE Oy
P.O. Box 61, Plispanportti 12, FIN-02211 Espoo
Telephone: 09 47846344
Facsimile: 09 47846500

GERMANY

LAMBDA ELECTRONICS GmbH,
Postfach 1367, D-77844 Achern, GERMANY.
Telephone: 0 784168060
Facsimile: 0 78415000

HUNGARY

ENER-GOM INDUSTRIAL AND TRADING LTD
Koranyi Sandor U. 3/B, Budapest, HUNGARY, H-1089
Telephone: 014598010
Facsimile: 014598019

INDIA

KARNATAKA TELECOM LTD,
Cunningham Road, Bangalore, 560052, INDIA
Telephone: 091 80 2257026
Facsimile: 091 80 2253208

ISRAEL

NEMIC LAMBDA LTD,
Kibbutz Givat, Hashlosha, 48800, ISRAEL
Telephone: 03 9024333
Facsimile: 03 9024777

ITALY

LAMBDA ELECTRONICS s.r.l.
Via Fratelli Gracchi, 36-20092 Cinisello Balsamo (MI) ITALY
Telephone: 02 66040540
Facsimile: 02 66040650

JAPAN

NEMIC LAMBDA KK,
1-11-15 Higashigotanda, Shinagawa-Ku, Tokyo 141, JAPAN.
Telephone: 0 258221234
Facsimile: 0 258231531

KOREA

NEMIC LAMBDA K.K.
6F Sungok Bldg 4-1 Soonae-Dong Boondang-gu
Sungnam-shi kyonggi-do KOREA.
Telephone: 82-2-556-1171
Facsimile: 82-2-555-2706

SINGAPORE

NEMIC LAMBDA (S) PTE LTD
1008 TOA Payoh North #07-06, SINGAPORE 1231
Telephone: 0 2517211
Facsimile: 0 2509171

SOUTH AFRICA

EAGLE TECHNOLOGY
31-35 Hout Street, Cape Town 8000, SOUTH AFRICA
Telephone: 021 234943
Facsimile: 021 244637

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SOUTH AFRICA
Telephone: 011 4406714
Facsimile: 011 4406818

SWEDEN

LAMBDA SCANDINAVIA AB
Hörnåkersvägen 8, S-183 65 Täby, SWEDEN
Telephone: 08 6300695
Facsimile: 08 6301228

SWITZERLAND

CL ELECTRONICS GmbH,
Postfach 162, CH-8165, Oberweningen, SWITZERLAND
Telephone: 01 8561923
Facsimile: 01 8561892

USA

LAMBDA ELECTRONICS INC,
515 Broad Hollow Road Melville L.I., New York 11747-3700, U.S.A.
Telephone: 516 6944200
Facsimile: 516 2930519

**Coutant Lambda Limited**

Kingsley Avenue
Ilfracombe
Devon EX34 8ES
United Kingdom

Telephone - Head Office +44 (0)1271 856600
Telephone - UK Sales +44 (0)1271 856666
Telephone - Export Sales +44 (0)1271 856699
Facsimile +44 (0)1271 864894

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