

NCE60 Series

product overview

**60Watt 3U Eurocassette
AC Input Power Supplies**

1 to 3 Output Versions

Package Size Down to 8TE

High Reliability

High Efficiency - Typically 80%

OPP and Overload Protection

Adjustable Main Output

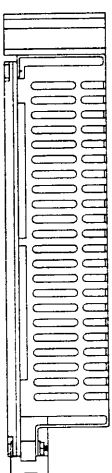
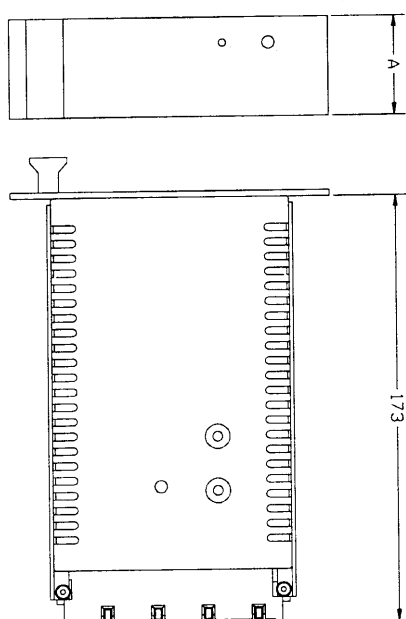


Outline dimensions (with heatsink)

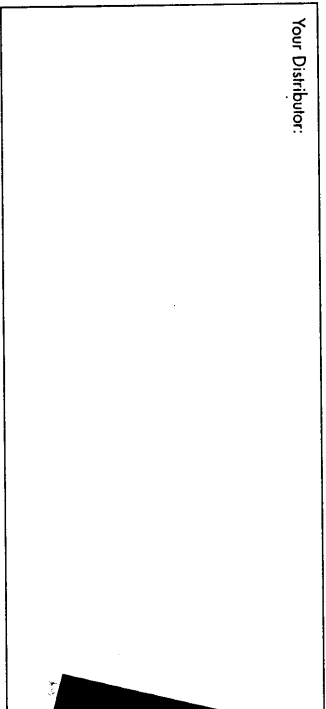
Case Style	1	2
Dimension A (mm)	50.5 (10TE)	60.6 (12TE)
Weight (kg)	0.65	0.75

(without heatsink)

Case Style	1	2
Dimension A (mm)	40.3 (8TE)	50.5 (10TE)
Weight (kg)	0.45	0.55



Your Distributor:



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NCE60 Series



corporate overview

Founded in 1982, with a history stretching back over fifty years, Newport has established sales and manufacturing bases in Europe, USA and Asia, facilitating a global presence for a market-leading range of power-related products.

Ongoing investment in products and processes has enabled the organisation to continue to operate at the leading edge of technology.

Quality is fundamental to the Newport philosophy and plays a key role in all aspects of the business. Newport Components was awarded ISO 9001 for design and manufacturing in 1990 and ISO 9002 followed for the non-manufactured Newport Technology products in 1995. These approvals are now regarded as a platform for developing a greater appreciation of the quality needs of our customers.

Recognising the demands facing today's designers, Newport continues to make advances in key technology areas including reduced footprints, increased power density, higher isolation and improved packaging technology. This continual drive for progress has led to a number of 'world firsts'.

An ongoing commitment to customer service and satisfaction is the reason Newport maintains a market-leading position in Europe. The organisation recognises the need to provide a high level of service at all times to support customers in achieving their business goals.



description

The NCE60 series of AC/DC eurocassette switching power supplies comprises single and multiple output devices offering high reliability, high performance and a power density in excess of 1.5 watts per cubic inch. The NCE60 series is the perfect choice for applications where rack space is at a premium. The NCE60 series is ideal for computer, telecommunications, test and measurement, industrial, medical and business machine applications.

features

- ☐ Built in EMI Filter to EN55022
- ☐ Safety to EN60950
- ☐ CE Marked in 1996
- ☐ DC Inputs Available
- ☐ Non-Standard and Custom Available
- ☐ Optional PF. Signal, Fourth Output and Current Share
- ☐ 1 to 3 Output Versions
- ☐ Package Size Down to 8TE
- ☐ High Reliability
- ☐ High Efficiency - Typically 80%
- ☐ OVP and Overload Protection
- ☐ Adjustable Main Output

electrical specifications* (input)

Input voltage ranges..... 90-132 or 180-264VAC
Switch selectable (outselect available as an option)
Frequency..... 47-440Hz
Transients..... 2.5kV 10µs (line-neutral)
1.5kV 150µs (line-earth)
Input current..... 1.0A rms @ 220VAC : 2.0A rms @ 110VAC
Inrush current..... 25A peak @ 110VAC cold start @ 25°C
Input fuse..... 3.15A anti-surge type
Efficiency at full load..... 80% typical
Hold up time..... 18ms MIN at 60 watts load
99VAC or 198VAC input
EMI/RFI..... EN55022
Safety..... Designed to meet EN60950

electrical specifications* (output)

Maximum output power..... 60Watts
Single output units..... V01
Dual output units..... V01 V02
Triple output units..... V01 V02 V03
Voltage setting accuracy..... ±1% ±4% ±5%
Voltage adjustment..... ±10%¹
Line regulation (over input range)..... ±0.2% ±0.1%
Load regulation (10% - 100% load)..... ±0.5% ±1.0%
Cross regulation..... ±0.2% ±6% ±0.5%
Over voltage threshold..... 115-125% V01
Remote sense on V01..... 0.5V MAX¹
Ripple and noise (30MHz b/w) p-p..... 1% 1%
Current limit..... Power limited to 70 watts

¹ On triple output units V02 tracks V01

Power supply will operate with no load but requires a minimum load of 20% on V01 to meet above specification.

electrical specifications* (environmental)

Operating free air temperature range..... 0°C to 60°C
(derate each output by 5% per °C from 50°C to 60°C)
Temperature coefficient..... 0.02% per °C
Storage..... -40°C to 85°C
Isolation voltage (input to output)..... 3750Vrms

* All values are typical at 25°C ground benign.

ordering information

Port Number	Output 1	Output 2	Output 3	Case Style 1	Case Style 2
NCE60-501	5V 12A	-	-	8TE	10TE
NCE60-502	12V 5A	-	-	8TE	10TE
NCE60-503	15V 4A	-	-	8TE	10TE
NCE60-504	24V 2.5A	-	-	8TE	10TE
NCE60-505	48V 1.25A	-	-	8TE	10TE
NCE60-001	5V 12A	F5V 1A	-	8TE	10TE
NCE60-002	12V 4A	F12V 1A	-	8TE	10TE
NCE60-003	15V 3A	F15V 1A	-	8TE	10TE
NCE60-004	24V 2A	F24V 1A	-	8TE	10TE
NCE60-005	48V 1A	-	-	8TE	10TE
NCE60-006	5V 6A	+12V 3A	F12V 1A	8TE	10TE
NCE60-007	+5V 6A	+12V 3A	F15V 1A	8TE	10TE
NCE60-008	+5V 6A	+12V 3A	F24V 1A	8TE	10TE
NCE60-009	+5V 6A	+24V 2A	F24V 1A	8TE	10TE
NCE60-010	+5V 6A	+12V 3A	F24V 1A	8TE	10TE
NCE60-011	+5V 6A	+24V 2A	F12V 1A	8TE	10TE

Other voltage and current options are available. Please consult sales office for details.

F prefix denotes a floating output for +ve or -ve connection.

In restricted airflow applications a factory fitted optional heatsink is available. Please add -H to the end of the part number. Optional heatsink will increase unit width by 2TE.

additional notes

Two basic NCE case styles are available.

Case style 1 comprises a non-metallic cover to one side of the unit with a metal cover to the other. This gives a minimum 8TE width. To order please add -1 after the part number.

Case style 2 has a full metal casing. This gives a minimum 10TE width. To order please add -2 after the part number.

options

Power fail signal..... 5ms TTL signal warning of output failure
DC OK signal..... TTL indication of V01 falling by 5%
Fourth output..... Additional output rated at 0.25A
Current sharing..... Active current sharing for single output units
Autoset..... Automatic input selection between 110/240V
Battery backup.....
..... UPS input for battery backup via NCE UPS Eurocard

Note: Power fail, DC OK and fourth output use the AUX connection pin 16. Only one of these options may be specified.

connections - (Pin 41612 H15 connector)

Pin No.	Single O/P	Dual O/P	Triple O/P
4	-S	-S	-S
6	+S	+S	+S
8	-V01	-V01	-V01/-V02
10	-V01	-V01	-V01/-V02
12	+V01	+V01	+V01
14	+V01	+V01	+V01
16	AUX	AUX	AUX
18	CS*	-	+V02
20	-	+V02	+V03
22	-	-	-
24	-	-	-
26	-	-	-
28	Neutral (N)	Neutral (N)	Neutral (N)
30	Live (L)	Live (L)	Live (L)
32	Earth (E)	Earth (E)	Earth (E)

* Option

