

DATA SHEET NPD36A

Wall mount AC adapter 37.5W



SUMMARY

Latest generation switch mode power supply (SMPS) designed by NetBit for the latest CPE product applications for high volume deployment in North America and Europe.

USER BENEFITS

- Compact size – designed to maximise shipping efficiency and reduce total transportation costs
- High efficiency – optimized to meet latest energy efficiency standards for lower total power consumption
- CPE ready – built to meet and exceed the operating requirements for all CPE applications and installations
- Reliable – engineered to high standards to give a long and reliable service for operators and end users

APPLICATIONS

- Set-top boxes and PVRs: cable, satellite, hybrid/IP
- Gateways: DSL, DOCSIS 3.0 and 3.1, G-PON

AC INPUT

Rated input voltage: 100-120 / 100-240 / 200-240VAC
Operating range: 90-264VAC
Wall mount AC plug options: US, EU
Inrush current: <60A, 100A optional
No load power consumption: $\leq 0.075W$

DC OUTPUT

Output voltage current: 2.5-3A, 37.5W max
Output voltages: 15V, 12V, 9V, 5V options
Peak current: 7A or custom
Load/line regulation: $\pm 5\%$
OVP: 19.5V max for 15V or custom
OCP: 160% or custom
Hold-up time: $\geq 10ms$ or custom
Turn on delay: $< 3s$
Overshoot / undershoot: $\leq 10\%$
Audible noise: $< 25dBA$ at 300mm
Ripple: 150mVp-p

OPERATIONAL

Operating temperature range: 0-45°C
Altitude: 0 – 5,000m operational, 0 – 12,000m non-op
Humidity: 0 – 95% operational and non-op

MECHANICALS

Color: black / white
DC plug size: type-C / PD3.0
DC cable length: 22AWG, 1.8m or custom
LED: green or optional

RELIABILITY

MTBF: $> 438,000$ hours per Telcordia SR332
E-Cap lifetime: > 10 years @ 25°C
Derating standard: IPC-9592B Class I

REGULATORY COMPLIANCE

EMI: CE + RE: EN 55032 Class B
ESD: EN 61000-4-2 15kV air / 8kV contact
Surge immunity: 2kV/6kV optional

SHIPPING & PACKAGING

Approx. weight: 200g
Carton quantity: 96pcs
Pallet quantity: 2,304pcs
Pallet size: 1,000 x 1,200mm
Full container load 20'GP: 40,320pcs

CERTIFICATIONS

Safety: IEC/EN 62368-1, UL, CE
EMI: EN 55032, FCC
Efficiency: DoE VI / ErP VI
Environmental: RoHS/REACH compliant

CASE DIMENSIONS

Wall mount - vertical plug
Width: 34mm
Height: 45mm
Length: 85mm



OPTIONAL CPE ENHANCEMENTS

This PSU design can be customized to meet the exact needs of your application or design including and not limited to:

Output voltage and current
UL1449 open neutral protection
Custom labelling or branding
QLN/PLT/UNT compliance
8A peak

Please contact our sales team to discuss your exact needs.

RoHS DIRECTIVES

RoHS 2.0
Halogen free: optional
90% PCR: optional

For more information on NetBit products, please visit our website - www.netbit.com