

DATA SHEET NBS42D

AC adapter 36W-42W



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 DVRs/PVRs: cable, satellite, hybrid/IP
- Routers and advanced data gateways: DSL, DOCSIS 3.0/3.1, G-PON
- Smart/connected AV devices, smart audio speakers

AC INPUT

Rated input voltage: 100-120 / 100-240 / 200-240VAC
Operating range: 90-135 / 90-264 / 195-264VAC
Wall mount AC plug options: US, EU, UK, Brazil, Australia, Argentina
Desktop: C8
Inrush current: <100A
No load power consumption: $\leq 0.075W$

DC OUTPUT

Output voltage current: 3-3.5A, 42W max
Output voltage: 9-15V or 18-24V
Load/line regulation: +/- 5%
OVP: custom
OCP: 120-150%
Hold-up time: $\geq 10ms$
Turn on delay: <3s
Overshoot / undershoot: $\leq 10\%$
Audible noise: <18dBA at 600mm
Ripple: 120mVp-p

OPERATIONAL

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

MECHANICALS

Color: black / white
DC plug size: custom
DC cable length: custom
LED: 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 / FCC Part 15 Class B
ESD: EN 61000-4-2 15kV air / 8kV contact
Surge immunity: ITUK.21 6kV enhanced surge IEC61000-4-5

SHIPPING & PACKAGING

Approx. weight: 174g
Carton quantity: 60pcs
Pallet quantity: 1,440pcs
Full container load 20'GP: 36,000pcs

CERTIFICATIONS

Safety: IEC/EN 62368-1, CE, CB, UL, RCM, SMARK
Efficiency: DoE VI / ErP VI / CoC v5 T2 / NRCAN
Environmental: RoHS/REACH/PRO65 compliant

CASE DIMENSIONS

Desktop
Width: 51.5mm
Height: 33.5mm
Length: 112mm



Wall mount - vertical plug
Width: 33.5mm
Height: 51.5mm
Length: 117.5mm



Wall mount - horizontal plug
Width: 51.5mm
Height: 36.2mm
Length: 97.2mm



OPTIONAL CPE ENHANCEMENTS

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

- Customized output voltage
- PLT/PLC compatibility
- PLT conducted emissions
- UL1449 open neutral protection
- Customized transient peak power
- Quiet Line Noise (QLN)

Please contact our sales team to discuss your exact needs.

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