

DATA SHEET NBS24N

Wall mount AC adapter 24W



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 exceed 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: 100-240 / 200-240VAC
Operating range: 90-264VAC
Rated input frequency: 50/60Hz
Wall mount AC plug options: US, EU
Inrush current: No damage
No load power consumption: $\leq 0.075W$

DC OUTPUT

Output voltage current: 2A, 24W max
Output voltage: 12V
Load/line regulation: +/- 5%
OVP: 16V
OCP: 150%
Hold-up time: $\geq 10ms$
Turn on delay: $< 3s$
Overshoot / undershoot: $\leq 10\%$
Audible noise: $< 25dBA$ at 300mm
Ripple: $< 120mVp-p$

OPERATIONAL

Operating temperature range: 0 – 40°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: custom
DC cable length: custom
LED: green optional

REGULATORY COMPLIANCE

EMI: CE + RE: EN 55032 Class B
ESD: EN 61000-4-2 15kV Air / 8kV Contact
Surge: designed with enhanced and robust surge immunity;
2KV/6KV optional

SHIPPING & PACKAGING

Approx. weight: 138g
Carton quantity: 75pcs
Pallet quantity: 1,800pcs
Full container load 20'GP: 18,800pcs

CERTIFICATIONS

Safety: IEC 62368-1, UL, CE
EMI: EN 55032, FCC
Efficiency: DOEVI/ERP
Environmental: RoHS/REACH compliant

CASE DIMENSIONS

Wall mount
Width: 33mm
Height: 50mm
Length: 72mm



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 and current
- UL1449 open neutral protection
- Custom labelling or branding
- PLT/QLN compliance

Please contact our sales team to discuss your exact needs.

RoHS DIRECTIVES

RoHS 2.0
Halogen free
Case produced using minimum 50% PCR (Post Consumer Recycled) plastics

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