

DATA SHEET NBS12G

Wall mount AC-DC adapter 5W-12W



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

ECO BENEFITS

- Heatsink-free design: reduces cost and CO₂ footprint
- Smaller enclosure: less plastic, more per container, lower CO₂ footprint
- Post-consumer recycled case options: reduced virgin plastic
- SUP free packaging options

OPTIMISED CONNECTED USER EXPERIENCE

- Dual Y-cap locations enables optimisation between PLT and noise floor
- Enhanced safety - UL1449/open neutral - PWM IC with bulk-OVP function
- Low common mode noise floor (UNT-A, CMD)

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 / 180-264VAC
Rated input frequency: 50/60Hz
Wall mount AC plug options: EU, US, UK, AR
Inrush current: <60A
No load power consumption: $\leq 0.075W$

DC OUTPUT

Output voltage current: 2.1A, max
Output voltage: 4.5-7.5V, 9-12V
Load/line regulation: $\pm 5\%$
OVP: 150%
OCP: 110-160%
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 – 45°C
Altitude: 0 – 3,000m operational, 0 – 12,000m non-op
Humidity: 0 – 95% non-condensing

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: ITU K.21 6kV

SHIPPING & PACKAGING

Approx. weight: 77g
Carton quantity: 120pcs
Pallet quantity: 2880pcs
Full container load 20'GP: 28,800pcs

CERTIFICATIONS

Safety: IEC 62368-1, UL, CE
EMI: EN 55032, FCC
Efficiency: CoC v5 Tier2
Environmental: RoHS compliant

CASE DIMENSIONS

Wall mount
Width: 28.5mm
Height: 37.3mm
Length: 66.4mm



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
- Customised transient peak power

Please contact our sales team to discuss your exact needs.

RoHS DIRECTIVES

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

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