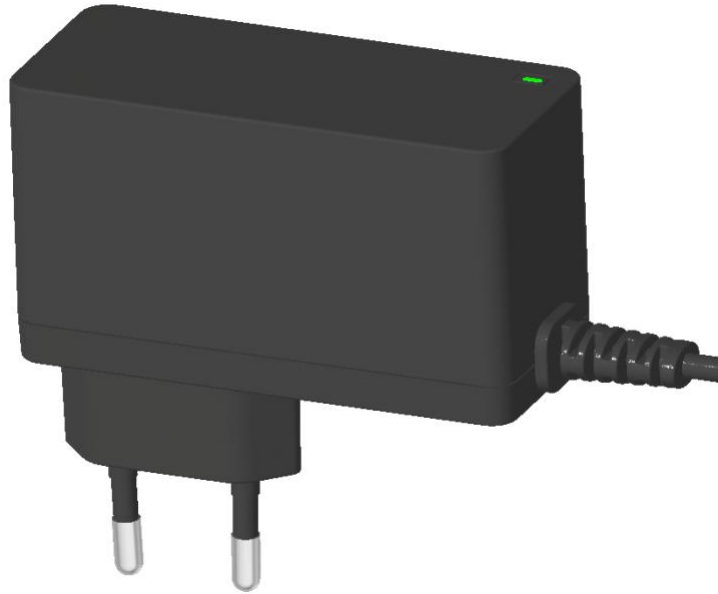


DATA SHEET NBS36M

Wall mount AC/DC adapter 30-45W



SUMMARY

Latest generation NBS36M high efficiency 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

- Optimisation for PLT and QLN
- Enhanced safety - UL1449/open neutral - PWM IC with bulk-OVP function
- Support peak load- 3x output power
- Average efficiency:>92%,typical 92.5%
- Efficiency: 5W-2.85A load>92%

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
Rated input frequency: 50/60Hz
Wall mount AC plug options: US, EU, SAA, AR, BR
Interchangeable plug option: Detachable AC plugs
Inrush current: <130A (<60A optional or custom)
No load power consumption: $\leq 0.075W$

DC OUTPUT FOR PLATFORM

Output voltage: 12V-24V

Output current & power: 3.0A MAX,
37.5W for 100-120 / 100-240 / 200-
240VAC

Output current & power: 3.5A MAX, 45W for 200-240V

Load/line regulation: $\pm 5\%$
OVP: 140% Max. or custom
OCP: 180% Max. or custom

Hold-up time: $\geq 10ms$ or custom
Turn on delay: <3s or custom (optional for high voltage
startup)
Overshoot / undershoot: $\leq 5\%$
Audible noise: <25dBA at 300mm
Voltage Ripple: <150mVp-p (<100mVp-p optional)

OPERATIONAL

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

MECHANICALS

Color: black/white
DC plug size: custom
DC cable: 1.8m or custom
LED: green optional or custom

REGULATORY COMPLIANCE

EMI: CE + RE: EN 55032 Class B; EN 55035
ESD: EN 61000-4-2 15kV Air / 8kV Contact
Surge: designed with enhanced and robust surge immunity;
2kV/6kV optional

SHIPPING & PACKAGING

Approx. weight: 160g
Carton quantity: 80pcs
Pallet quantity: 1440pcs

CERTIFICATIONS

Safety: IEC 62368-1, UL, CE
EMI: EN 55032, FCC
Efficiency: DOEVI/ERP/COC Tier2
Environmental: RoHS/REACH compliant

CASE DIMENSIONS

Wall mount

Width: 31.5mm
Height: 41.5mm
Length: 75mm



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
QLN/PLT compliance
Peak load for VSB or custom

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