DATA SHEET NBP30A

Desktop AC-DC PoE adapter 18-30W

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 both operators and end users

APPLICATIONS

- Set-top boxes and PVRs: cable, satellite, hybrid/IP
- Gateways: DSL, DOCSIS 3.0 and 3.1, G-PON
- WiFi extenders/repeaters, ODU, 5G, IoT
- Home automation, security devices, smart speakers

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AC INPUT

Rated input voltage: 100-240 / 200-240VAC
Operating range: 90-264 / 180-264VAC
Rated input frequency: 50/60Hz
Desktop: C8/C14
Inrush current: <100A
No load power consumption: ≤0.1W

DC OUTPUT

Output voltage current: 0.625A
Output voltage: 48-57V
Load/line regulation: +/- 5%
OVP: 60V
OCP: 120-160%
Hold-up time: ≥10ms
Turn on delay: <3s
Overshoot / undershoot: ≤10%
Audible noise: <25dBA at 300mm
Ripple: 300mVp-p

LAN AND PoE RJ45 CONNECTOR

RJ45: compliance to 100/1000/2G5Base-T
PoE RJ45: pins 1, 2, 7 and 8 DC–; pins 3, 4, 5 and 6 DC+

OPERATIONAL

Operating temperature range: 0-45°C
Altitude: 0 – 5,000m operational, 0 – 10,000m non-op
Humidity: 0 – 95% operational and non-op

MECHANICALS

Color: black / white
LED: optional

REGULATORY COMPLIANCE

EMI CE + RE: EN 55032 Class B
ESD: EN 61000-4-2 15kV Air / 8kV Contact
Surge immunity: ITU-T K.21 Enhanced Level 6kV surge to
Ethernet port and PoE power port RJ45 connector

SHIPPING & PACKAGING

Approx. weight: TBD
Carton quantity: TBD
Pallet quantity: TBD
Full container load 20'GP: TBD

CERTIFICATIONS

Safety: IEC 62368-1, UL, CE
EMI: EN 55032, FCC
Efficiency: ERP 2020 / DoE VI
Environmental: RoHS compliant

CASE DIMENSIONS

Desktop
Width: 61mm
Height: 38mm
Length: 126mm

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
PLT/PLC compatibility
PLT conducted emissions
UL1449 open neutral protection
Customized transient peak power
Quiet Line Noise (QLN)
Custom labelling or branding

Please contact our sales team to discuss your exact needs.

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

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