DATA SHEET NPD15BC

Wall mount AC/DC USB Type-C Power adapter 16W



SUMMARY

This specification defines the performance and characteristics of a wall mount AC/DC USB TYPE-C adapter designed by NetBit for the latest CPE product applications for high volume deployment.

USER BENEFITS

- Compact size – designed to maximize 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
- MTBF >50 years at 25°C and >25 years at 45°C ambient, according MIL HBDK 217 standard
- MTBF>500,000 Hours at 40°C ambient, according Bellcore SR 332 standard
- Continuous operational lifetime :>7 years at 25°C and >3 years at 45°C ambient
- Compliant with the latest PD3.2 standard and USB-IF specifications
- Supports custom VDM message definition
- Compliant with (EU) 2025/2052 common-charger requirements

OPTIMISED CONNECTED USER EXPERIENCE

- Lower leakage current
- Enhanced safety - open neutral - PWM IC with bulk-OVP function
- Optimisation for QLN and PLT.

ECO BENEFITS

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

APPLICATIONS

- Set-top boxes and PVRs; cable, satellite, hybrid/IP
- Gateways: DSL,DOCSIS 3.0 and 3.1, G-PON

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AC INPUT

Rated input voltage: 200-240VAC
Operating range: 180 to 264Vac

Rated input frequency: 50/60Hz
Wall mount AC plug: EU/custom
No load power consumption: ≤0.075W

DC OUTPUT

Output current & power: 3A ,16W
Output voltage: 5V(3A)/9V(1.78A)

Load/line regulation: +/- 3%

OVP: 7V Max. for 5Voutput, 11.7V for 9Voutput or custom

OCP: 160% Max. or custom

Hold-up time: ≥10ms

Turn on delay: <3000ms

Overshoot / undershoot ≤10%

Audible noise: <25dBA at 1m

Ripple: 200mVp-p Max. for 5Voutput, 120mVp-p Max. for 9Voutput,

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 or custom.
Plug USB Type-C
DC CC cable options:20AWG 1.5m or custom
LED:Green 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; 6kV ,K.21 standard

SHIPPING & PACKAGING

Carton quantity: 150pcs

Pallet quantity: 2700pcs

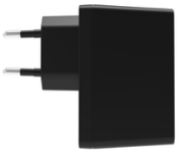
Full container load 20'GP:59400PCS

CERTIFICATIONS

Safety: IEC 62368-1, CE
Environmental: RoHS/REACH compliant
Efficiency: CoC-V5.2 and (EU)2025/2052

CASE DIMENSIONS

Wall mount
Width: 31mm
Height: 42.5mm
Length: 65mm



RoHS DIRECTIVES

RoHS 2.0
Case produced using PC PAHS 6P NP REACH ROHS NOP

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

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