DATA SHEET NBS12F

AC adapter 12W

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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 operators and end users

APPLICATIONS

- IPTV set-top boxes
- HD/4K IP client set-top boxes

NetBit®
POWERING YOUR IDEAS

AC INPUT

Rated input voltage: 100-120 / 100-240 / 200-240VAC
Operating range: 90-135 / 90-264 / 195-264VAC
Wall mount AC plug options: US, EU, UK, Brazil, Australia, Argentina
Inrush current: <100A
No load power consumption: ≤0.075W

DC OUTPUT

Output voltage current: 0.05-2.1A, 12W max
Output voltage: 4.7-7.5V or 8-12V
Load/line regulation: +/- 5%
OVP: custom
OCP: 120-150%
Hold-up time: ≥10ms
Turn on delay: <3s
Overshoot / undershoot: ≤10%
Audible noise: <18dBA at 600mm
Ripple: 120mVp-p

OPERATIONAL

Operating temperature range: 0-45°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: optional

RELIABILITY

MTBF: >438,000 hours per Telcordia SR332
E-Cap lifetime: >10 years @ 25°C
Derating standard: IPC-9592B Class I

REGULATORY COMPLIANCE

EMI: CE + RE: EN 55032 / FCC Part 15 Class B
ESD: EN 61000-4-2 15kV air / 8kV contact
Surge immunity: ITUK.21 6kV enhanced surge IEC61000-4-5

SHIPPING & PACKAGING

Approx. weight: 72g
Carton quantity: 120pcs
Pallet quantity: 2,880pcs
Full container load 20'GP: 57,600pcs

CERTIFICATIONS

Safety: IEC/EN 62368-1, CE, CB, UL, RCM
Efficiency: DoE VI / ErP VI / CoC v5 T2
Environmental: RoHS/REACH/PRO65 compliant

CASE DIMENSIONS

Wall mount - vertical plug
Width: 28mm
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
PLT/PLC compatability
PLT conducted emissions
UL1449 open neutral protection
Customized transient peak power
Quiet Line Noise (QLN)

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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