



Cambium Networks

Specification for a non standard Power over Ethernet DC injector used on ePMP

Cambium Networks part number: Gigabit Supply N000900L001A, 100Mbit Power Supply N000900L002A

General Specifications

| Specification Parameter | Description |
|-------------------------|--|
| Input/Output | 3-wire AC line desktop with shielded RJ45 plugs and 18 AWG drain |
| Black plastic housing | Desktop, rectangular brick shape, suggested approximate size 1.25" |
| AC input connector | IEC320 C6 |

Electrical Specifications

| Specification Parameter | Description |
|---|---|
| AC Input Voltage Range | 90-264Vac |
| AC Input Current | 0.5A rms at 120VAC; 0.25A rms at 240VAC |
| AC input frequency | 47 to 63 Hz |
| In-Rush current | 30A at 120Vac; 60A at 240Vac |
| DC Output Power at 0C to 40C | 15W max. |
| Efficiency | Meets Level V |
| No Load Power Consumption | Less than 300mW |
| EMI | FCC Class B, EN55022 Class B |
| Isolation (Hi-pot) | 3000Vac for 1 minute, 10mA |
| Insulation resistance | 500Vdc, 500Mohm min |
| Over current Protection | Short circuit, with auto recovery |
| DC Output voltage/current transient when AC line is applied while radio load is connected | Must start up with all radio platforms specified over temperature from 0C to 40C and using a 3 foot and 328 foot CAT5 cable |
| Start up time | within 3 seconds after AC line main is applied 0C to 40C |
| Over Voltage protection | Zener clamping |
| MTBF | 50K hours minimum |
| RoHS and WEEE | Meets current directives |
| Energy Star and MEPS | Meets Energy Star 2.0, Aussie and Korea MEPS |
| Safety approvals | UL (UL60950-1 2nd Edition), cUL, Aussie RCM, C-Tick and |
| Output Voltage | 30.0 Vdc +/-5% |
| Minimum Load Current | 0A |
| Max Load Current | 500 mA |
| Peak load current | 600mA |
| Ambient Operating Temperature | 0C to 40C |
| ESD | EN61000-4-2, Level 3 |
| AC line surge | EN61000-4-5, Level 3 |
| Immunity | EN61000-4-2, level 3; EN61000-4-3, level 2; EN61000-4-4, level 2; |
| Hold up time | 10mS min at max load, 120Vac |
| Leakage current | 250uA max |
| Humidity | 20%-90% |
| Altitude | Standard (up to 6000 feet) |
| LED Green | LED location determined by supplier |
| Ripple | 300mV p-p |



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| Specification Parameter | Description |
|---|--|
| DC Output/100BaseT model | Two shielded RJ45s: To radio (OUT): balanced data pins 1,2 and |
| DC Output/1000BaseT GBit model | Two shielded RJ45s: To radio (OUT): balanced data pins 1,2 and |
| DC Current Imbalance (1Gbit model only) | 15mA max. imbalance current through toroid |
| AC line PE grounding (3rd prong), all Ethernet data lines have 10 mil spark gaps to PE (ground) | 3 pin AC input; 18AWG green with yellow strips (UL, CE requirement) drain wire must be connected from PE 3rd AC pin to RJ45 shield |
| Between DC secondary to AC line primary, ESD protection request for controller IC | Need to add zener diode from feed back input pin to controller IC's DC return. This adds ESD protection for the controller IC from DC secondary side to AC line side |

Mechanical Specifications

| Specification Parameter | Description |
|--|---|
| Drop Test | Dropped 32" onto all 6 sides one time in its enclosure onto a |
| Pull Test AC line cord from power supply | AC line cord should meet min. 10 lb pull test |
| Pull test CAT5 cable | Either RJ45 must meet 10 lb min. pull test |
| Laser etched label for AP GBit 1000BaseT version | Gigabit Data+ Power / Gigabit Data |
| Laser etched label for SM 100BaseT version | Data+ Power / Data |

