# FN2500-20-08-C13

SAP Code: 821789

- Chassis mount
- 20 A EMC filter with screw terminals
- 1 Phase

Buy article now

## Approvals & Compliances

Certifications FN2520 pending

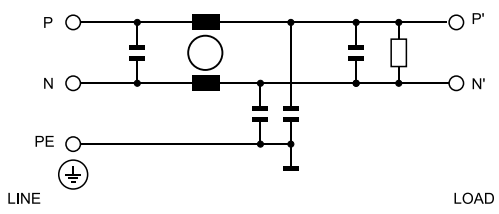
## Features and Benefits

- FN2500 / FN2520 series fits perfectly within 1HU height for rack mount
- The filters are built to perform perfectly in datacenter and audio video equipment
- The shape allows convenient and space-saving installation
- Fulfills the requirements in IEC/EN 62040-1 - Uninterruptible power systems (UPS)
- Fulfills the requirements in IEC 62368-1 - Audio/ Video, Information and Communication Technology Equipment
- Fulfills the requirements in IEC/EN 60335-1 - Household and similar appliances

## Typical Applications

- Datacenter (at 400 VDC)
- Building technology with DC power distribution
- Robotics, collaborative robots, autonomous machines
- Audio and video equipment
- UPS - Uninterruptible power supplies

## Typical electrical schematic




## Family Technical Specifications

| | |
|---|---|
| **Rated operating voltage** | 277 VAC / 400 VDC (CQC: 250 VAC / 250 VDC) |
| **Operating frequency** | DC to 60 Hz |
| **Protection category** | IP00 / IP20 for -103 terminals |
| **Pollution degree** | 2 acc. IEC 60664-1 |
| **Vibration and shock** | 3M12 acc. IEC 60721-3-3 |
| **Overvoltage category** | II acc. IEC 60664-1 |
| **Temperature range (operation and storage)** | FN2500: -40°C to +100°C (with derating >50°C)<br>FN2520: -40°C to +85°C (with derating >50°C) |
| **Cooling** | Natural cooling AN |
| **Climatic category** | FN2500: 40/100/21 acc. IEC60068-1<br>FN2520: 40/085/21 acc. IEC60068-1<br>FN2520: 40/085/21 acc. IEC60068-1 |
| **Flammability corresponding to** | Plastic material: UL 94 V0<br>Laces for -07 version: UL 94 VW1 |
| **Rated currents** | 20 |
| **Surge withstand** | 2 kV Ph-Ph / 4 kV Ph-PE (Level 4) |
| **High potential test voltage** | P(DC+) –> N(DC-) 1500 VDC for 2 sec*<br>P(DC+)/N(DC-) –> PE 2500 VDC for 2 sec* |
| **Overload capability** | 1.5 x rated current for 1 minute once per hour |
| **Altitude** | Derating above 2000 m |
| **Certified to** | UL/IEC 60939-3, CSA 22.2 No. 8-13, GB/T 15287 |
| **MTBF** | > 300,000 h |

* High potential test voltage: Repetition with max. 80% of specified values

## General Specification

| | |
|---|---|
| **Voltage AC** | 277 (Volt) |
| **Nominal Frequency** | 50 |
| **Rated Current @ambient** | 20 |
| **Ambient temperature [°C]** | 50 |

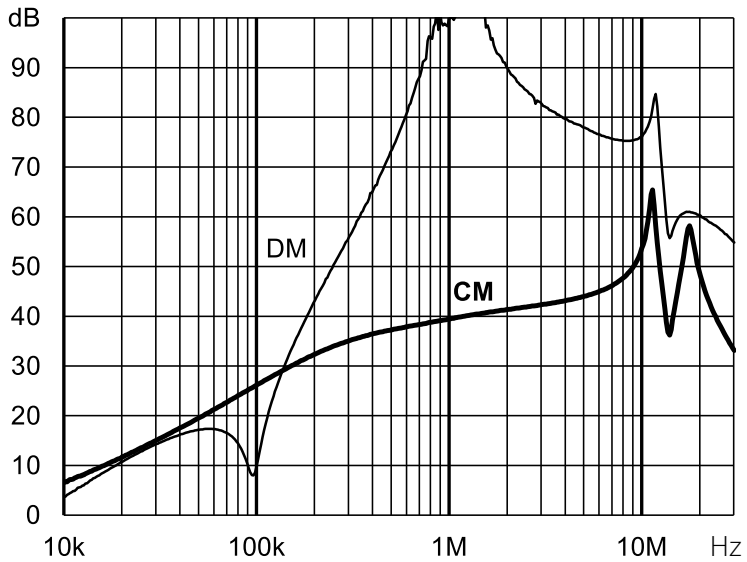
## Electric Specification

| | |
|---|---|
| **Leakage current (IEC60939) [mA]** | 0.87 |
| **Input terminal** | 08 - M4 screw terminal |
| **Output terminal** | 08 - M4 screw terminal |
| **Resistance** | 680 (Kiloohm) |

## Attenuation Specification

| | |
|---|---|
| **CM attenuation @ 150kHz [dB]** | 34 (Decibels) |
| **DM attenuation @ 150kHz [dB]** | 28 (Decibels) |
| **Inductance L1 [µH]** | 2.4 (Millihenry) |
| **Capacitance Cx1 [µF]** | 1 (Microfarad) |
| **Capacitance Cx2 [µF]** | 0.47 (Microfarad) |
| **Capacitance Cy1 [nF]** | 10 (Nanofarad) |

Attenuation graph

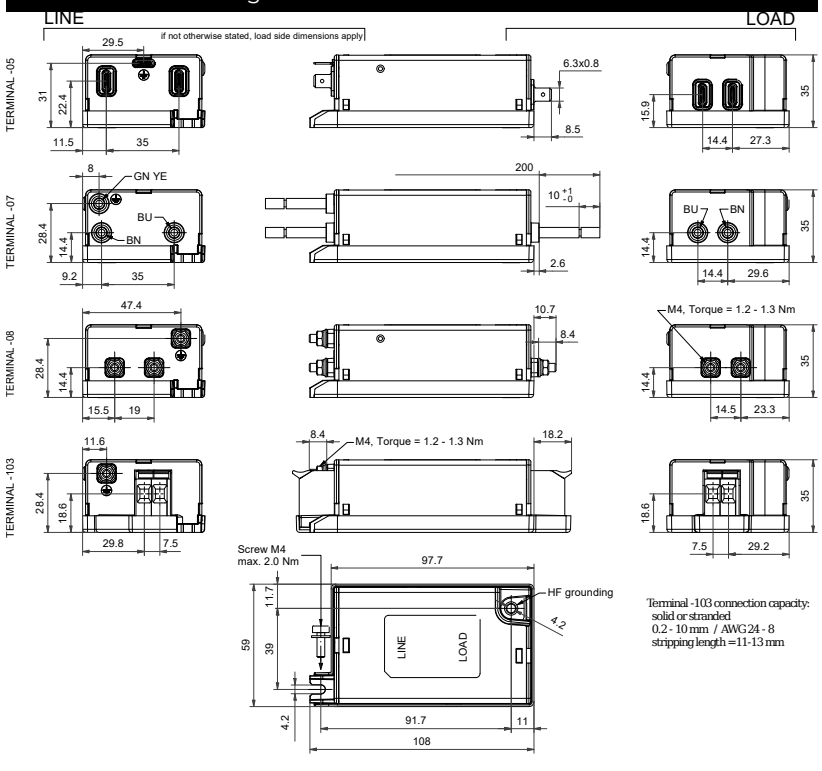


## Mechanic Specification

| | |
|---|---|
| **Length [mm]** | 97.7 |
| **Width [mm]** | 59 |
| **Height [mm]** | 35 |
| **Volume [cm3]** | 202 (Cubic Centimeter) |
| **NetWeight [g]** | 260 (Gram) |
| **Power Loss [W]** | 6.2 (Watt) |

## Schaffner schemes

Mechanical Data Image




## Dimensions