

**SPSM:** "The patented self-healing power routing solution that provides virtually unlimited power to the network"

---

# SPSM Technical Specifications



Document No. SPSM 03 - Rev. 1.3 – Jan 2010

---

Confidential, for internal use only. Not to be distributed, shared, or copied in any way without prior written permission from the SPSM patent owner.

**SPSM:** "The patented self-healing power routing solution that provides virtually unlimited power to the network"

## SPSM Technical Specifications

<b>Electrical</b>	Max Current (Each Port)	16 A
	Operational Voltage range	50 – 90Vac
	Power Consumption	2W
	Minimum operate voltage for local port (*)	39Vac
	Switching Time	<18msec'
	$\Delta$ VDC @ 24Vdc amplifier internal power supply during switch over	0.0Vdc (On Line)
<b>Mechanical</b>	Dimensions	L143 x W121 x H82mm L5.3" x W4.75" x H3.28"
	Weight	710gr (1.56lb)
	Connectors type	5/8" X 24
	Closure Screws Torque	30 – 45 [in/lbs] 40 – 51.8 [Kg/cm]
<b>Environmental Information</b>	Operating Humidity	0-100%
	Operating Temperature	- 40° +70°C (- 40°F +158°F)
	Broadcast Continuity	Transfer Time Online
<b>Standards Compliance</b>	CE	EN61000-4-8: 1993 EN61000-4-3: 1996
	EMC	EN50082-1: 1997 EN61000-4-2: 1995
	ROHS	IEC -61000-4-5 Surge Immunity EN - 61000-4-5 Surge Immunity ENV50204: 1995
<b>LED's Indicators</b>	Two GREEN LED's ON	Primary mode
	Two RED LED's ON	Backup mode
	One GREEN and one RED LED's ON	Secondary mode
*Minimum operational AC voltage for the SPSM local port, to be ON.		

**MTBF 25 years per Telecordia standards @ 40 degrees Celsius**

# **SPSM:** "The patented self-healing power routing solution that provides virtually unlimited power to the network"

---

## **SPSM - General Specifications**

- Internal monitoring options: Voltage, current, LED status option.
- Self-diagnostic for monthly auto test if desired.
- Heavy-duty power passing choke, 16Amps to each port.
- 90° swivel blocks for easy aerial or pedestal installation.
- 20Amp Fuse option between power supply ports.
- Automatic voltage sensing - eliminates the need for spares.
- Status monitoring capable.
- Stainless steel hardware.
- Connector strip gauges on housing and heat shrink ridges on all 5/8" X 24 ports.
- 360 die cast aluminum housing and plate has been sealed and plated.
- Ports numbered on die cast housing.
- 100% quality control at our factory.
- Torque specifications for base plate are 30 to 45 in/lbs or 40.3 to 58.1 kg/cm.
- Manufactured in state-of-the-art ISO certified facility.



### **Note:**

The SPSM connects to the RF path **via** a Smart Power Combiner (SPC) and does not impact the RF path in any way. It is installed parallel to the RF path providing power switching/routing capability, and therefore ***has no impact*** on the RF levels.