

CableServ® -48 V DC Power Supply For SA Prisma™ I Optical Platform



Product Description

The CableServ Power Supply was created as a performance enhanced product to provide MSOs with the ability to convert their existing SA Prisma™ Optical Platform powering from 115 V AC to -48 V DC or simply replace an existing -48 V DC power supply in such a platform.

The CableServ Power Supply can be installed in SA's 6470 and 6470-R2 chassis and also used either as a primary or backup power source, providing the following output voltages:

+24 V analog

+5 V analog

-5 V analog

+5 V digital

The power supply is also equipped to provide hot-swap capability, allowing the system to run completely uninterrupted in case a failed unit needs to be replaced. It also attaches to the rear of the chassis, saving valuable rack space.

CableServ's Power Supply is designed with several benefits such as higher power efficiency, superior thermal performance, active current sharing and reliability.

With services such as VoIP, uninterrupted services are key issues. With its active current sharing design, CableServ's Power Supply increases reliability by allowing even load sharing of your battery backup, prolonging the battery banks supply time.

Applications

- Prisma™ Models 6470 & 6470-R2 chassis.
- -48 V DC Power Supply (Part #540607).



Product Features

- Higher power efficiency.
- Active current sharing (50/50)
- Lower ripple & switching noise.
- Superior thermal performance.
- Superior reliability.
- Uses existing mounting configuration.
- Full 24 month limited warranty.

Product Specifications

PRODUCT MODEL: CEL -48 VDC PS FOR SA PRISMA I						
PARAMETER	Notes	Units	+24V DC	+5V DC	-5V DC	+5V DC
Input Voltage Range		V	-33 to -75			
Input Current Max @ 48 VDC	1	A	10.5			
Output Voltage		V	24+2/-0.5	5+/-0.2	-5+/-0.2	5+/-0.2
Adjustable Range		% Nominal	5%	10%	10%	10%
Factory Adjustment @ max output current		V	24	5	-5	5
Max Output Load		W	252	60	11.5	40
Max Output Current		A	10.5	12	2.3	8
Line Regulation	2		10 mV	0.20%	0.20%	0.20%
Load Regulation	3		25 mV	0.20%	1.0	0.20%
Overvoltage Protection	4		120%	115-130%	125%	115-130%
Overcurrent Safe Shutdown, typ		A	13	15	3.1	10
Efficiency of DC/DC converter min / typ		%	85 / 91	80/85	80/87	80/85
Isolation						
Input-Output		kV	1.5	1.5	1.5	1.5
Input-Ground		kV	1.5	1.5	1.5	1.5
Output-Ground		kV	1.5	1.5	1.5	1.5
Ripple @ Noise @ Max Load	5	mVpp	240	50	50	50
Operating temperature		°C	-40 to +60			

Specifications are subject to change without notice.

NOTE:

1. @ max output load.
2. Measured from High Line to Low Line
3. Measured from Full Load to Zero Load
4. From Output Nominal Value
5. Measured at 20 MHz bandwidth

Order Information

PRODUCT MODEL	ORDER NUMBER
CEL -48 VDC PS FOR SA PRISMA I	824-305-150-OCE



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