



The power protection and battery backup solution for all your digital communication needs.

The CSN27U12V FTTx 12Vdc Battery Backup Power Supply, provides cable telephone, wireless local loop (WLL) and fiber to the premise (FTTx) suppliers with a dependable, cost effective, local battery backup and power supply for home networking equipment. This FTTx DC power supply brings new features to the CyberShield FTTx product line including enhanced surge protection, thermally compensated battery charging, improved efficiency and more.

The CSN27U12V is designed to be mounted inside the home in locations such as basements, mudrooms, utility closets and garages and provides 6kV survivable surge protection per GR-1089/IEEE C62.41.2 during power surges, keeping your networking equipment running when you need it the most.

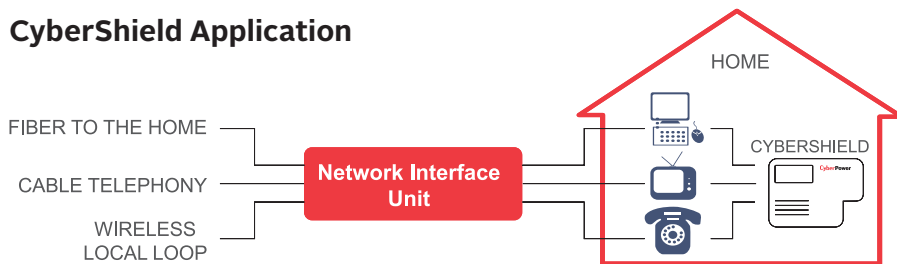
CSN27U12V Highlights

- AC input 6kV Surge Survivable
- Temperature Compensated Charging
- Enhanced ESD Immunity
- EMI Performance Improvement
- Improved Efficiency
- Smaller Enclosure
- OVP/OCP & ONT Reset Functionality
- Cold Start & Silence Buttons

Local Powering Solution

- Cable Telephone
- Wireless Local Loop
- VoIP & VoDSL
- Fiber to the Home
- MTU/MDU
- SOHO Network Communication

CyberShield Application



Product Features

- Standard 7.2Ah battery
- Microprocessor based intelligent control
- Optional extendable runtime with XBP or other valid Aux In Source
- Alarm for utility failure and low battery
- Easy user-replaceable battery
- Temperature compensation for battery charging
- Safe shutdown prior to thermal damage due to fault events

Key Product Benefits

- AC input with 6kV surge protection per IEEE C62.41.2 and GR-1089
Better operational reliability under adverse fault and weather conditions
- Temperature compensated battery charging
Improved battery life and capacity over the product operating range
- OVP/OCV and ONT reset functionality
Enhanced product safety and functionality for trouble call management
- EMI performance improvement

- Greener operation through Increased efficiency
Reduced heat and power consumption
- Enhanced ESD immunity
- Reverse-polarity battery installation protection
Reduces failures due to improper 3rd party battery installation
- Cold Start Operation
Ability to restore operation while AC Mains is out with battery replacement or use of a valid external DC input
- Alarm Silence Buttons
Silence alarm during extended outages

MODELS	CSN27U12V-12	CNS27U12V-XL	CNS27U12V	CNS27U12V3	CNS27U12V3-G
AC INPUT					
Input Voltage Range	90 – 264Vac				
Input Frequency Range	47 – 70Hz				
Input Power Cord	IEC320 / C7, 2-Prong Cord			IEC320 / C5, 3-Prong Cord	
Output Ground Reference	Floating Ground				Grounded
DC OUTPUT					
On Battery Output Voltage	12Vdc with Over Voltage Protection				
Continuous Power Capability	27W				
Output Power Max	30W < 5 sec.				
Efficiency (at Full Load)	> 80% @ Line Mode, > 90% @ DC Mode				
BATTERY					
Battery Type	Sealed, Maintenance Free Lead-Acid Battery				
Numbers of Battery	12Ah / 12V x 1	7.5Ah / 12V x 1	7.2Ah / 12V x 1		
Typical Recharge Time	< 25 Hrs.	14 Hrs. (90% Charged)			
Replaceable	Yes				
SURGE PROTECTION & FILTERING					
Lightning / Surge Protection	Yes (6kV @ 8/20µs) per IEEE C62.41.2 and GR-1089				
WARNING DIAGNOSTICS					
Audible Indicator	Utility Failure, Low Battery				
LED Indicators	Replace Battery, Mute, DC, System Status				
MANAGEMENT					
Auto-Charge	Yes – Thermally compensated				
Communication Interface	On Battery, Replace Battery, Missing Battery, Low Battery				
PHYSICAL					
Maximum Dimensions (L*W*D)	16.7cm x 19cm x 8.3cm				
Weight (kg)	3.03 (with battery)				
ENVIRONMENT					
Operating Temperature	-4° – 113°F (-20°C – 45°C), Operation at 50°C (122°F) with Derating to 18W				
Operating Humidity	0 – 95% Non-condensing				
Max Operating Elevation	10,000 ft. (3,000 m)				
Max Storage Elevation	50,000 ft. (15,000 m)				
Storage Temperature	-4° – 113°F (-20°C – 45°C)				
COMPLIANCE					
System	UL60950-1 2nd Edition, FCC Part 15 Class B, CISPR 22 Class B				
VARIANTS					
North America (NEMA 1-15)	CSN27U12V-12	CNS27U12V-XL	CNS27U12V	–	–
North America (NEMA 5-15)	–	–	–	CSN27U12V-NA3	CSN27U12V-NA3-G
European Schuko (CEE 7)	–	–	CSN27U12V-SC2	CSN27U12V-SC3	CSN27U12V-SC3-G
Australian/New Zealand (AS/NZS)	–	–	CSN27U12V-AZ2	CSN27U12V-AZ3	CSN27U12V-AZ3-G
United Kingdom (BS 1363)	–	–	CSN27U12V-UK2	CSN27U12V-UK3	CSN27U12V-UK3-G
Brazil (NBR 14136)	–	–	–	CSN27U12V-BZ3	CSN27U12V-BZ3-G

Note (1): If the units are needed without batteries, please add “-SB” to the end of the part number while placing orders. (i.e., CSN27U12V-SB)
 Note (2): If the units are needed without power cables, please add “-NC” to the end of the part number while placing orders. (i.e., CSN27U12V-NC)
 Note (3): The model, CSN27U12V-XL, includes the battery which has longer cycle life.
 Note (4): The CSN27U12V-12 basically shares the same plastic enclosure with the CSN27U12V but has a higher battery compartment cover.