



## 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 CyberShield FTTx DC power supply features 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.

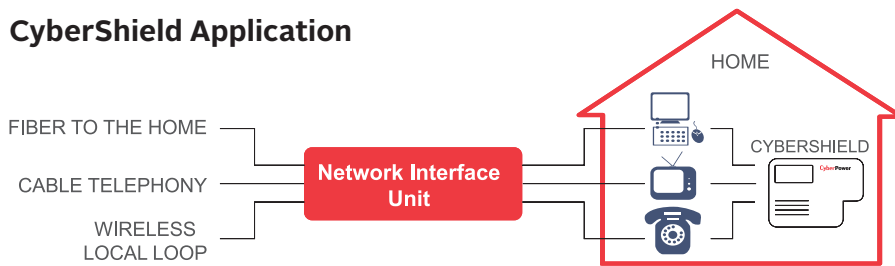
### CSN27U12V Highlights

- 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		CSN27U12V-XL	CSN27U12V	CSN27U12V3	CSN27U12V3-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	CSN27U12V-XL	CSN27U12V	–	–	
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.

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