



CyberShield™

Telecommunication Power Backup

CyberPower®

Provided by: TTM Solutions
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UNINTERRUPTIBLE POWER SOLUTIONS FOR:

- FTTH/P Networks
- Wireless Local Loop Networks
- VoIP and VoDSL
- Cable Telephony
- MTU / MDU
- SOHO Network Communication

PRODUCT FEATURES:

- Universal input voltage
- Microprocessor-based intelligent control
- Communication interface
- Optional extendable runtime
- Audible Alarm signals utility failure, low battery and replace battery
- Temperature compensated charging
- Cold Start Capable



Dependable Products

CyberShield DC power supplies are the products you can trust. No recalls; no unnecessary truck rolls. Dependable products designed specifically for all broadband applications.



More than **8 hours**
System Backup Power



Quality

- State-of-the-art manufacturing and design facilities.
- Rigorous quality control tests
- Maintenance-free products and easy installation



Intelligence

- Easy-to-read LEDs; audible alarms
- Self-diagnostic tests
- Hot swappable batteries



Customer Service

- Live, professional technical support
- NO automated menus
- All questions answered promptly



Safety

- UL, cUL, FCC, CE safety tested
- Products exceed Telcordia standards
- Proven track record of quality and dependability



Product Availability

- MRP inventory control
- Inventory trend forecasting
- Proper inventory and safety stock levels



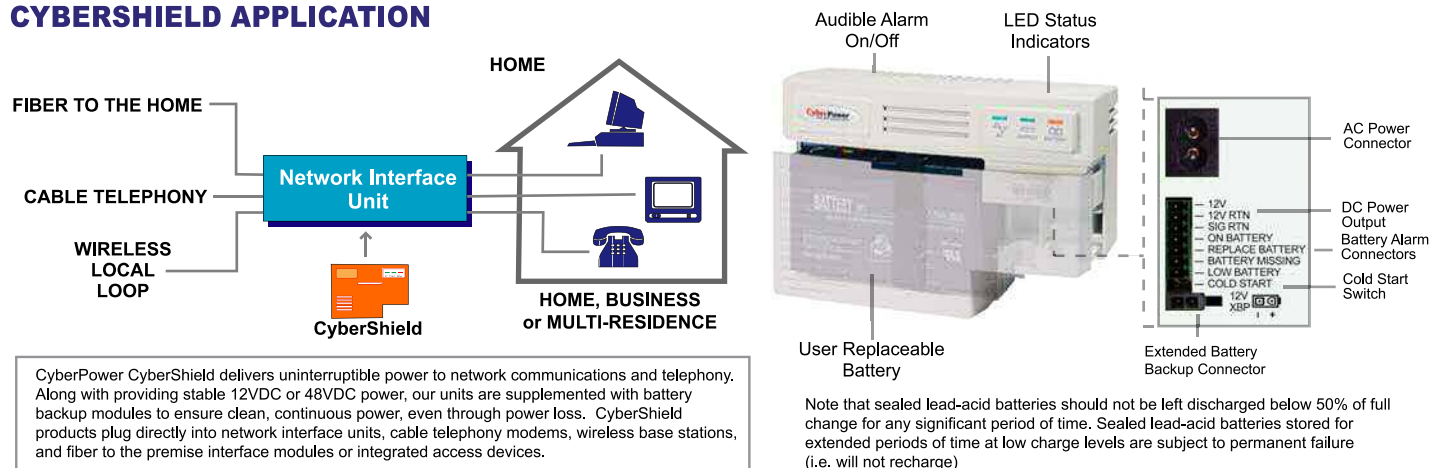
Expandability

- Continual product enhancements
- New product development
- Extended battery packs

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CYBERSHIELD APPLICATION



TECHNICAL SPECIFICATIONS

Model Number	CS24U12V	CS24U12V-12	CS24C12V2-E	CS24U12V-XL	CS30U12V-20	CS16U48V-8	CS50U48V	CS36A12V2*	CS20A-EBP
Flexible									
Area of use	Interior	Interior	Exterior	Interior	Interior	Interior	Interior	Interior	Interior
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Input									
Voltage Range	87Vac - 264Vac (Universal Input)							90Vac - 135Vac	-
Frequency Range	40 - 70 Hz							60Hz	-
Output									
On Battery Output Voltage	12Vdc				48Vdc		12Vdc - 17Vdc		-
Continuous Power Capability	24W				30W	16W	50W	36W	-
Output Power Maximum	24W				30W	16W	50W	36W	-
Efficiency (at Max Load)	> 76%								-
Battery									
Sealed, Maintenance Free Lead-Acid Battery	7.2AH/12V	12AH/12V	7.2AH/12V	7.2AH/12V	20AH/12V	8AH/12V	20AH/12V	N/A	20AH/12V
Intelligent Charging	Unit evaluates battery temperature and adjusts the charging cycle accordingly							N/A	-
Typical Battery Life	3 - 5 years	3 - 5 years	3 - 5 years	5 - 8 years	5 - 8 years	3 - 5 years	5 - 8 years	N/A	5 - 8 years
Typical Recharge Time	18 Hours	24 Hours	18 Hours	18 Hours	18 Hours	12 Hours	18 Hours	N/A	-
User Replaceable	Yes, Hot Swappable								-
Warning Diagnostics									
Audible Indicator	Utility Failure, Low Battery								-
LED Indicators	AC, Output, Battery								-
Management									
Auto-Charge	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	-
Communication Interface	On Battery, Replace Battery, Battery Missing, Low Battery								-
Environment									
Operating Temperature	32°F to 104°F (0°C to 40°C)**							-4°F to 115°F (-20°C to 46°C)	-
Operating Humidity	0% - 95% condensing								-
Maximum Operating Elevation	10,000ft (3,000m)								-
Storage Temperature	5°F to 113°F (-15°C to 45°C)								-
Maximum Storage Elevation	50,000ft (15,000m)							10,000ft (3,000m)	-
Physical									
Power Cords	Pass-Through	Pass-Through	Non-Pass Through	Pass-Through	Non-Pass Through	Pass-Through	Non-Pass Through	Non-Pass Through	Non-Pass Through
Unit Dimensions (in)	9¼ x 6¼ x 3½	9¼ x 6¼ x 4½	10¼ x 8 x 3¾	9¼ x 6¼ x 3½	11¼ x 11 x 4	9¼ x 6¼ x 3½	11¼ x 11 x 4	PSU - 4x2½x1½ BBU - 6¾x6¾x3½	11¼ x 11 x 4
Unit Weight (lbs)	7.3	10.8	7.7	7.3	17	7.3	17.5	PSU - .77 BBU - 1.51	15.4
Carton Dimensions (in)	14 x 14 x 4¾	14 x 14 x 6½	14 x 14 x 4¾	14 x 14 x 4¾	17 x 17¼ x 9	14 x 14 x 4¾	17 x 17¼ x 9	7¼x11¼x9¼	17 x 17¼ x 9
Carton Weight (lbs)	9.5	13.0	10.0	9.5	21.0	9.5	22.0	3.3	20.0

*CS36A12V2 unit does not ship with a battery. Unit takes a 7.2AH battery

**Exterior unit electronics operating temperature is -40°F to 131°F (-40°C to 46°C) + solar loading. Battery has a trickle charge in lieu of a battery heater

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For more information, visit CyberPower's Web Site at www.cyberpowersystems.com or call 1-877-CY-POWER