



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.



	<p>Quality</p> <ul style="list-style-type: none"> • State-of-the-art manufacturing and design facilities. • Rigorous quality control tests • Maintenance-free products and easy installation 		<p>Intelligence</p> <ul style="list-style-type: none"> • Easy-to-read LEDs; audible alarms • Self-diagnostic tests • Hot swappable batteries 		<p>Customer Service</p> <ul style="list-style-type: none"> • Live, professional technical support • NO automated menus • All questions answered promptly
	<p>Safety</p> <ul style="list-style-type: none"> • UL, cUL, FCC, CE safety tested • Products exceed Telcordia standards • Proven track record of quality and dependability 		<p>Product Availability</p> <ul style="list-style-type: none"> • MRP inventory control • Inventory trend forecasting • Proper inventory and safety stock levels 		<p>Expandability</p> <ul style="list-style-type: none"> • Continual product enhancements • New product development • Extended battery packs

CyberShield™

Telecommunication Power Backup

CYBERSHIELD APPLICATION



CyberPower CyberShield delivers uninterruptible power to network communications and telephony. Along with providing stable 12VDC or 48VDC power, our units are supplemented with battery backup modules to ensure clean, continuous power, even through power loss. CyberShield products plug directly into network interface units, cable telephony modems, wireless base stations, and fiber to the premise interface modules or integrated access devices.

Note that sealed lead-acid batteries should not be left discharged below 50% of full charge for any significant period of time. Sealed lead-acid batteries stored for extended periods of time at low charge levels are subject to permanent failure (i.e. will not recharge)

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 4¼	14 x 14 x 6½	14 x 14 x 4¼	14 x 14 x 4¼	17 x 17¼ x 9	14 x 14 x 4¼	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