

PULS



PRODUCT SELECTION & PRICING GUIDE

North America | 2015
www.pulspower.us

PULS – The Market Leader

Reliability and Sustainability from the Market Leader!

For 35 years and counting, PULS has dedicated 100% of our company resources on design, development, production, and sales of high quality, long lasting DC power products for the Industrial market. Our singular focus on the needs and requirements of the DC power market has resulted in PULS becoming the market leader in this demanding industry. Our broad product offering enables users to select the right PULS product for the application requirements without the need to oversize and/or purchase unneeded features.

PULS products provide the longest service lifetime and PULS continues to be the only DIN-Rail power supply manufacturer that publishes the expected lifetime of our units. PULS products also offer industry leading efficiency ratings across our product range, providing longer lifetimes of all electronic components. Our small footprint and low heat losses often allow for a smaller control enclosure.

PULS manufactures all of our products in two state of the art manufacturing facilities that are wholly owned and operated by PULS. In addition to building highly efficient products, PULS manufacturing facilities and processes themselves are very efficient. Our newest production facility has been awarded LEED Gold status by the U.S. Green Building Council.

We stock every product listed in this Selection Guide in our North American warehouse to assure availability and timely delivery. Our philosophy to not discontinue standard products will save you money by eliminating the need to redesign your control system due to product migration and/or discontinuation.

Our Customer Service and Application Assistance team is ready to provide the support and guidance you need. You can also visit www.pulspower.us for detailed information and documentation for our products.

Matt Biskner
President – PULS North America

Table of Contents

PULS North America – The Market Leader	2
PULS Resources & Support	3
10 Reasons for Choosing PULS	4-5
Product Families	6
Sustainability at PULS	7
Single Phase Plastic Housing Power Supplies	8
Single Phase Metal Housing Power Supplies	9
3-Phase Power Supplies	10
Redundancy Modules & Redundant Power Supplies	11
Conformal Coated & Network Power Supplies	12
ATEX & IECEx Approved Products	13
DC/DC Converters	14
Power Supplies with DC Input	15
PISA – 24VDC Protection Modules	16
Buffer Modules	17
DC-UPS & Battery Modules	18-19
Mounting Kits	20
Complete Alpha-Numeric Product Listing	21-23
Parallel & Series Connections	24

PULS Czech Manufacturing Plant



The DC Power Specialist

Contact our Application or Customer Service Team for availability and other questions you might have at (630) 587-9780 or info@puls-us.com

Educational Resources



YouTube Videos



"The PULS Advantage" White Papers

Visit Us at www.pulspower.us

Many suggestions and requirements from customers have been included in our revised website. Our website features technical information and data files which makes using PULS even easier. For our standard units, you can find the following information:



- The most important features
- Mechanical dimensions
- Functional diagrams
- Output characteristic curves
- CE Declaration of Conformity
- Related products
- Suitable accessories for devices
- E-Plan macros
- 2-D CAD design data file formats (.dxf and .dwg files)
- 3-D CAD design data file formats (.stp and .dwt files)
- 3-D formats can be displayed on most PCs using free viewer software from Autodesk®.
- Many various approval certificates and approval reports
- Links to corresponding UL and other agency sites where our products are listed
- Conflict Minerals Template
- Find your North American local representative

A new data sheet archive has also been added for older products such as the AP and DP units.

It always pays to visit www.pulspower.us. This can make your work much simpler and save lots of time.

PULS China Manufacturing Plant



10 Reasons for Choosing PULS

EFFICIENCY

- Highest Energy Efficiency Ratings
- Lower Heat Generated in the Enclosure Allows a Longer Lifetime for All Components in the System
- Lowest Energy Consumption for the User



BROAD PRODUCT RANGE

- Single & 3-Phase AC Input and DC Input Power Supplies
- DC/DC Converters
- DC-UPS Controllers with Individual Battery Monitoring & Charging
- Redundancy Modules & Redundant Power Supplies
- AS-Interface & DeviceNet Approved Power Supplies



CONTROL OF SUPPLY CHAIN & MANUFACTURING

- From Development to Shipment - Entire Process is Controlled by PULS
- Two Ultra Modern Production Facilities
- Significant Inventory Levels in North America to Meet your Requirements



DEVELOPMENT ENGINEERING RESOURCES

- PULS Employs over 50 Engineers & Technicians Exclusively Dedicated to the Design and Development of Industrial DC Power Products with Leading Technologies
- Continually Developing & Introducing Next Generation DC Power Solutions
- Product Modifications Available for High Volume Applications



LONG LIFE OF PRODUCT FAMILIES

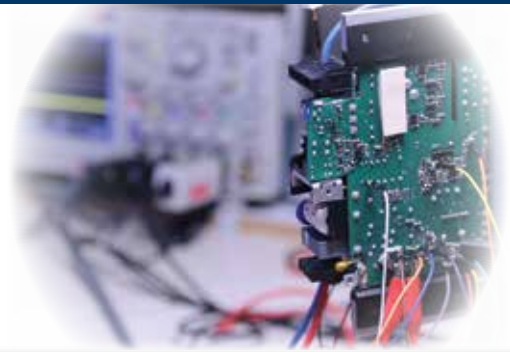
- PULS Maintains Existing Designs and Does Not Phase Out or Obsolete Standard Products
- Eliminates Forced Changes in Customer Designs due to Obsolescence
- Dependable Availability You Can Count on for Many Years



The Right Product for YOUR Application

THE DC POWER SPECIALIST

- DC Power Products are our ONLY Business
- Market Education & Training Leader
- Extensive Data Sheets with Guaranteed Test Data You can Rely On



LOWEST TOTAL COST OF OWNERSHIP

- Small Footprints Allow for Smaller Enclosures
- Lower Heat Generation also Allows for Smaller Enclosures
- Long Service Life Reduces Replacement Costs
- Less Energy Consumed to Produce the Same Power



QUALITY & LIFETIME

- Longest Lifetime in the Industry
- Quality is Assured with Every Product
- Performance Values in Data Sheets are Guaranteed



TECHNOLOGY LEADER

- Advanced Design Techniques Utilized to Lead the Market in Product Innovations
- PULS Implements the Latest Components & Technologies for Maximum Performance
- Recognized by Frost & Sullivan as the Technology Leader



CUSTOMER SERVICE & APPLICATION ASSISTANCE

- Application Engineering Support Available to Assist You Select the Right PULS Product for Your Application
- Highly Trained Sales Representatives Available to Assist You with Your Application
- Friendly & Responsive Customer Service Team Available to Assist You with Availability & Delivery Inquiries





DIMENSION

The Dimension Series offers everything from basic units with only essential functions to premium products for more demanding applications. Other Dimension products include DC/DC Converters, Buffer Modules, DC-UPS's and a large assortment of accessories. Due to the wide variety of options, you only pay for the features you need.

C - Series | Power Supplies and DC/DC Converters

Highly reliable power supplies in a compact housing which are easy to use. Focusing only on the essentials, achieves significant price advantages.

Q - Series | Premium Power Supplies

Suitable when you need state-of-the-art technology and flexibility for demanding tasks. With outstanding efficiencies, 50% BonusPower® and many other features, this series is the "Best in Class".

U - Series | Buffer Modules & DC-UPS

Back-up systems for extended periods with our unique single battery concept DC-UPS or for several minutes with our battery-free buffer module. This improves safety and prevents downtime, loss of data and long restart sequences.

X - Series | 3-Phase Power Supplies for Power Applications

For motors and other power-hungry loads. Small size, maximum efficiency and low price are the benefits with only minor compromises in a few features.

Y - Series | Redundancy Modules

For building redundant power supply systems or to isolate sensitive circuits.

Z - Series | Mounting Accessories

For installation in low profile cabinets or for panel installations where no DIN-Rail is available.



MINILINE

The MiniLine series covers the lower power requirements in the range from 15W to 100W. The units in their rugged plastic housing are highly efficient, compact, can be installed in seconds, and are extremely reliable. In addition to the standard 24V power supplies, many other output voltage are also available.

- 100-240 or 380-480V Input
- Output Voltages from 5V to 56V
- Robust Plastic Housing
- Spring Clamp Terminals on Standard Models and Screw Terminals on the Compact Units
- Wide Temperature Range from -10°C to +70°C and Select Models Down to -40°C
- Redundancy Modules



SILVERLINE

The classic power supply family for general applications which have been proven over a million times and has been continuously available since the mid 1990's.

- Single or 3-Phase Input
- Redundant Power Supplies
- AS-Interface® Power Supplies
- Redundancy Modules

Sustainability and Reliability in Everything We Do

Sustainability ensures that prosperity can be achieved today without sacrificing the resources and assets of future generations. It requires an integrated approach and focus on core values to meet both the current demands and those of the future. PULS is a global leader, not only in the products we build, but in how we build our products. Our dedication and commitment to sustainability in everything we do provides a positive impact for PULS and our customers.

“PULS is a global leader, not only in the products we build, but in how we build our products.”

[PULS 3 Circles of Sustainability]

PRODUCTS

- **Highly Efficient Ratings = Reduced Energy Usage & Less Heat Generation**
- **Small, Lightweight Products = Reduced Transit Costs & Smaller Enclosure**
- **Longer Service Lifetimes = Reduced Waste & Lower Maintenance Costs**
- **PULS Products Provide the Lowest Total Cost of Ownership**

COMPANY

- **Privately Held, Debt Free Company = Strong, Healthy Business Partner**
- **100% Focus on Industrial DC Power Products = Full Commitment of Resources Dedicated to Developing Leading Technologies**
- **Product Longevity = Dependable Supplier**
- **PULS Does NOT Obsolete Standard Products**

MANUFACTURING

- **LEED Gold Certified Production Facility = Reduced Environmental Impact**
- **Wholly Owned Production Facilities in 2 Hemispheres = Dependable & Flexible Manufacturing Capacity**
- **Highly Automated Production & 100% Burn In Testing of All Products = Reliable, High Quality Products for Your Equipment**
- **PULS Designs, Manufacturers ALL of our Products in our State of the Art Production Facilities**

Single Phase Plastic Housing Power Supplies



Compact MiniLine
ML30.241

- Excellent Efficiency
- Large Screw Terminals
- Robust Design
- Operational Temperature: -10° to + 70°C
- MTBF over 7,000,000 hours



Compact MiniLine
ML60.242

- Excellent Efficiency
- Large Screw Terminals
- Robust Design
- Operational Temperature: -40° to + 70°C
- MTBF over 3,200,000 hours



MiniLine
ML100.100

- Excellent Efficiency
- Spring Clamp Terminals
- Robust Design
- Operational Temperature: -10° to + 70°C
- MTBF over 4,000,000 hours

Features

Compact MiniLine Plastic Housing Power Supplies

Output Voltage	Output Current	Watts	Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Features						Catalog Number	List Price (USD)
					Screw Terminals	Spring Clamp	Parallel Capable	NEC Class 2	DC OK Signal	Class I Division 2		
5 - 5.5VDC	3A	15W	100-240VAC ⁵	75 x 22.5 x 91	•						ML15.051	\$72.00
	1.3A	15W	100-240VAC ⁵	75 x 22.5 x 91	•						ML15.121	\$72.00
12 - 15VDC	4.5A	54W	100-240VAC ⁵	75 x 45 x 91	•						ML60.121	\$140.00
					•						ML60.122	\$178.00
24 - 28VDC	0.63A	15W	100-240VAC ⁵	75 x 22.5 x 91	•						ML15.241	\$64.00
	1.3A	30W	100-240VAC ⁵	75 x 22.5 x 91	•						ML30.241	\$90.00
	2.5A	60W	100-240VAC ⁵	75 x 45 x 91	•						ML60.241	\$110.00
					•						ML60.242	\$167.00

Features

MiniLine Plastic Housing Power Supplies

Output Voltage	Output Current	Watts ¹	AC Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Features						Catalog Number ⁷	List Price (USD)
					Screw Terminals	Spring Clamp	Parallel Capable	NEC Class 2	DC OK Signal	Class I Division 2		
5 - 5.5VDC	5A	25W	100-240VAC ⁵	75x45x91		•					ML30.101	\$130.00
10 - 12VDC	3A	30W	100-240VAC ⁵	75x45x91		•					ML30.102	\$135.00
12 - 15VDC	4.2A	50W	100-240VAC ⁵	75x45x91		•					ML50.102	\$155.00
	7.5A	90W	100-120 / 200-240VAC ⁵	75x72.5x103		•					ML100.102	\$220.00
+/-12 or +/-15VDC	1.4 - 2.8A	36W	100-240VAC ⁵	75 x 45 x 91		•					ML30.106	\$140.00
24 - 28VDC	1.3A	30W	100-240VAC ⁵	75x45x91		•					ML30.100	\$100.00
	2.1A	50W	100-240VAC ⁵	75x45x91		•					ML50.100	\$124.00
	3A	72W	100-120 / 200-240VAC ⁴	75x45x91		•					ML70.100	\$150.00
	3.75A	90W	380-480VAC ³	75x72.5x103		•					ML90.200	\$240.00
	3.9A	95W	100-120 / 200-240VAC ⁶	75x72.5x103		•					ML95.100	\$210.00
	4.2A	100W	100-120 / 200-240VAC ⁵	75x72.5x103		•					ML100.100	\$170.00
			380-480VAC ³	75x72.5x103		•					ML100.200	\$240.00
48 - 56VDC	1.05A	50W	100-240VAC ⁵	75x45x91		•					ML50.105	\$140.00
	2.1A	100W	100-120 / 200-240VAC ⁶	75x72.5x103		•					ML100.105	\$210.00

Single Phase Metal Housing Power Supplies



Dimension Q-Series
QS5.241

- Industry's Smallest Footprint
- Efficiency up to 94%
- Spring Clamp Terminals
- 50% Current Reserves
- Operational Temperature: -25° to +70°C
- MTBF over 2,400,000 hours



Dimension C-Series
CS5.241

- Industry's Smallest Footprint
- Efficiency up to 93%
- Screw Terminals
- 20% Current Reserves
- Operational Temperature: -25° to +70°C
- MTBF over 2,200,000 hours



Classic SilverLine
SL5.102

- Long Standing Usage in the Industry
- Efficiency up to 90%
- Screw Terminals
- 20% Current Reserves
- Operational Temperature: -10° to +70°C
- MTBF over 2,100,000 hours

Single Phase Metal Housing Power Supplies

Output Voltage	Output Current	Watts ¹	AC Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Features										Catalog Number ⁷	List Price (USD)					
					Screw Terminals	Spring Clamp	Active Power Factor Parallel Capable	UL60950-1 DC Input	20% Power Boost	50% Bonus Power	DC OK Contact	SEMI F47 Compliant	Class 1 Division 2	A TEX & IEC EX							
12 - 15VDC	15A	180W	100-240VAC ⁵	124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•	QS10.121	\$420.00		
			100-120 / 200-240VAC ⁴	124 x 120 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	SL10.104	\$530.00	
	30A	360W	100-240VAC ⁵	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	CPS20.121	\$500.00		
24VDC	2.5A	60W	100-120 / 200-240VAC ⁴	124 x 49 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	SL2.100	\$190.00		
	4A	96W	100-120 / 200-240VAC ⁴	124 x 65 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	SL4.100	\$310.00		
24 - 28VDC	3.3A	80W	100-240VAC ⁵	124 x 32 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	CS3.241	\$155.00		
			100-240VAC ⁵	124 x 32 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	QS3.241	\$205.00		
	5A	120W	100-120 / 200-240VAC ⁶	124 x 32 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•	CS5.241	\$205.00		
			100-240VAC ⁵	124 x 40 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•	QS5.241	\$281.00		
	10A	240W	100-120 / 200-240VAC ⁴	124 x 65 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	SL5.102	\$285.00	
			100-120 / 200-240VAC ⁶	124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•	•	CS10.241	\$275.00	
			100-240VAC ⁵	124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QS10.241	\$384.00	
			100-120 / 200-240VAC ⁴	124 x 120 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	SL10.100	\$360.00	
	20A	480W	100-240VAC ⁵	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	CPS20.241	\$430.00	
			100-240VAC ⁵	124 x 82 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QS20.241	\$533.00	
100-120 / 200-240VAC ⁶			124 x 220 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	SL20.110	\$620.00		
30A	720W	200-240VAC ⁵	124 x 240 x 112	•	•	•	•	•	•	•	•	•	•	•	•	•	•	SL30.100	\$720.00		
		100-240VAC ⁵	124 x 125 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QS40.241	\$850.00		
28 - 32VDC	8A	240W	100-240VAC ⁵	124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•	QS10.301	\$444.00		
36 - 42VDC	13.3A	480W	100-240VAC ⁵	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	CPS20.361	\$500.00	
			100-240VAC ⁵	124 x 82 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QS20.361	\$694.00	
			100-120 / 200-240VAC ⁶	124 x 220 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	SL20.112	\$700.00	
26.7A	960W	100-240VAC ⁵	124 x 125 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QS40.361	\$1,060.00		
48 - 52VDC	5A	240W	100-120 / 200-240VAC ⁶	124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•	•	CS10.481	\$344.00	
100-240VAC ⁵			124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QS10.481	\$513.00	
100-120 / 200-240VAC ⁴			124 x 120 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	SL10.101	\$480.00	
48 - 56VDC	10A	480W	100-240VAC ⁵	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	CPS20.481	\$500.00	
48 - 55VDC			100-240VAC ⁵	124 x 82 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QS20.481	\$583.00
48 - 56VDC			100-120 / 200-240VAC ⁶	124 x 220 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	SL20.113	\$685.00
48 - 54VDC			100-240VAC ⁵	124 x 125 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	QS40.481	\$970.00

1 - For higher wattage applications, paralleling of power supplies is possible. PULS recommends using units that are "Parallel Capable" for parallel applications.

2 - See data sheet for input voltage tolerances.

3 - For input, these units utilize only two of the three legs of a 3-Phase system.

4 - Manual select input voltage.

5 - Wide-range input voltage.

6 - Auto-select input voltage.

7 - Most common catalog numbers - See pages 21 - 23 for complete listing.

3-Phase Power Supplies



Dimension Q-Series
QT40.241

- Industry's Smallest Footprint
- Efficiency over 95%
- Screw Terminals – Some with Spring Clamps
- Up to 50% Current Reserves
- Operational Temperature: -25° to +70°C
- MTBF over 2,000,000 hours
- Very Low AC Inrush



Dimension X-Series
XT40.242

- Unique Supply for Power Applications
- Efficiency up to 96%
- Screw Terminals
- 25% Current Reserves
- Operational Temperature: -25° to +70°C
- MTBF over 950,000 hours
- No AC Inrush



Classic SilverLine
SL20.310

- Long Standing Usage in the Industry
- Efficiency up to 90%
- Screw Terminals
- 20% Current Reserves
- Operational Temperature: -10° to +70°C
- MTBF over 2,100,000 hours

3-Phase Power Supplies

Features

Output Voltage	Output Current	Watts ¹	AC Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Features								Catalog Number ⁴	List Price (USD)		
					Screw Terminals	Spring Clamp	Active Power Factor Parallel Capable	20% Power Boost	50% Bonus Power	DC OK Contact	SEMI F47 Compliant	NEC Class 2			Class I Division 2	
12 - 15VDC	8A	96W	380-480VAC ³	124 x 40 x 117	•									CT5.121	\$315.00	
	3.75A	90W	380-480VAC ³	75 x 72.5 x 103		•								ML90.200	\$240.00	
	4.2A	100W	380-480VAC ³	75 x 72.5 x 103		•								ML100.200	\$240.00	
24 - 28VDC	5A	120W	380-480VAC ³	124 x 40 x 117	•									CT5.241	\$290.00	
			380-480VAC	124 x 73 x 117	•									SL5.300	\$320.00	
	10A	240W	380-480VAC	124 x 62 x 117	•									CT10.241	\$344.00	
			380-480VAC	124 x 89 x 117	•									SL10.300	\$380.00	
	20A	480W	380-480VAC	124 x 65 x 127	•	•									QT20.241	\$542.00
			380-480VAC	124 x 150 x 121	•										SL20.310	\$570.00
			380-480VAC	124 x 240 x 112	•										SL30.300	\$680.00
40A	960W	380-480VAC	124 x 110 x 127	•										QT40.241	\$722.00	
		380-480VAC	124 x 275 x 117	•										SL40.300	\$770.00	
36 - 42VDC	13.3A	480W	380-480VAC	124 x 65 x 127		•								QT20.361	\$720.00	
	26.7A	960W	380-480VAC	124 x 110 x 127	•									QT40.361	\$900.00	
48 - 56VDC	5A	240W	380-480VAC	124 x 62 x 117	•									CT10.481	\$422.00	
48 - 52VDC			380-480VAC	124 x 89 x 117	•										SL10.305	\$480.00
48 - 55VDC	10A	480W	380-480VAC	124 x 65 x 127		•								QT20.481	\$611.00	
48 - 54VDC	20A	960W	380-480VAC	124 x 110 x 127	•									QT40.481	\$866.00	

3-Phase Power Supplies - For Power Applications

Features

Output Voltage	Output Current	Watts	Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Features								Catalog Number ⁴	List Price (USD)	
					Screw Terminals	Spring Clamp	Active Power Factor Parallel Capable	25% Power Boost	50% Bonus Power	DC OK Contact	SEMI F47 Compliant	NEC Class 2			Class I Division 2
24VDC	40A	960W	480VAC	124 x 96 x 157	•									XT40.242	\$620.00
36VDC	26.6A	960W	480VAC	124 x 96 x 157	•									XT40.362	\$670.00
48VDC	20A	960W	480VAC	124 x 96 x 157	•									XT40.482	\$620.00
72VDC	13.3A	960W	480VAC	124 x 96 x 157	•									XT40.722	\$700.00

1 - For higher wattage applications, paralleling of power supplies is possible. PULS recommends using units that are "Parallel Capable" for parallel applications.
 2 - See data sheet for input voltage tolerances.
 3 - For input, these units utilize only two of the three legs of a 3-Phase system.
 4 - Most common catalog numbers - See pages 21 - 23 for complete listing.
 5 - Manual select input voltage.

Redundancy Modules & Power Supplies



MiniLine Redundancy Module
MLY02.241



Dimension Redundancy Module with Signaling
YRM2.DIODE



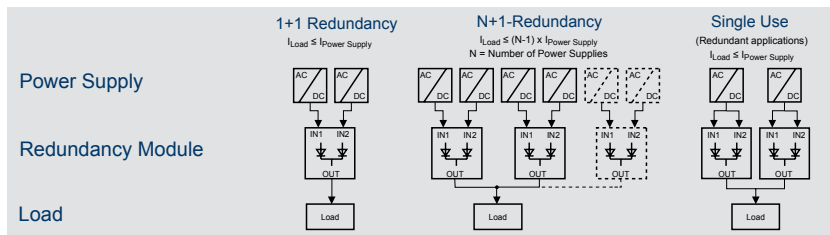
Dimension Redundancy Module
YR80.241



Classic SilverLine Redundant Supply
SLR5.100

- De-Coupling Diodes – Specific units with MOSFETs
- Screw Terminals – Some with Spring Clamps
- Operational Temperature: -40° to +70°C
- MTBF over 2,100,000 hours

- Power Supply Built In with De-Coupling Diode
- Efficiency up to 89%
- Relay Signal
- Plug Screw Terminals
- 20% Current Reserves
- Operational Temperature: -10° to +70°C
- MTBF over 2,000,000 hours



Redundancy Modules

Features

Output Voltage	Output Current	Power Supply Size	Input Voltage ²	Redundancy Method	Dimensions L x W x D (mm)	Screw Terminals	Spring Clamp	Alarm Contacts	Class I Division 2	ATEX & IECEx	PULS	Catalog Number	List Price (USD)
10 - 60VDC	10A	2 x 5A or 1 x 10A	10-60VDC	Diode	75 x 45 x 91	•	•	•	•	•		MLY02.100	\$61.00
			10-60VDC	Diode	75 x 45 x 91	•	•	•	•	•		MLY10.241	\$55.00
	20A	2 x 10A	10-60VDC	Diode	124 x 32 x 102	•	•	•	•	•		YR2.DIODE	\$100.00
12 - 28VDC	40A	2 x 20A	12-28VDC	MOSFET	124 x 36 x 127	•	•	•	•	•		YR40.242	\$130.00
	40A	1 x 40A	12-28VDC	MOSFET	124 x 46 x 127	•	•	•	•	•		YR40.245	\$194.00
	80A	2 x 40A	12-28VDC	MOSFET	124 x 46 x 127	•	•	•	•	•		YR80.242	\$210.00
24 - 28VDC	40A	2 x 20A	24-28VDC	MOSFET	124 x 36 x 127	•	•	•	•	•		YR40.241	\$194.00
	80A	2 x 40A	24-28VDC	MOSFET	124 x 46 x 127	•	•	•	•	•		YR80.241	\$325.00
	30A	2 x 30A	24-28VDC	Diode	124 x 48 x 102	•	•	•	•	•		SLR02	\$200.00
	40A	1 x 40A	24-28VDC	Diode	124 x 48 x 117	•	•	•	•	•		SLR01	\$185.00
24 - 56VDC	40A	2 x 20A	24-56VDC	MOSFET	124 x 46 x 127	•	•	•	•	•		YR40.482	\$194.00
24 - 60VDC	20A	2 x 10A	24-60VDC	Diode	124 x 32 x 117	•	•	•	•	•		YRM2.DIODE	\$135.00

Single Phase Redundancy Power Supplies

Features

Output Voltage	Output Current	Watts	AC Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Screw Terminals	NEC Class 2	Parallel Capable	DC OK Contact	De-coupling Diode	Class I Division 2	PULS	Catalog Number	List Price (USD)
24VDC	2.5A	60W	100-120 / 200-240VAC ⁵	124 x 49 x 102	•	•	•	•	•	•		SLR2.100	\$230.00
	5A	120W	100-120 / 200-240VAC ⁵	124 x 64 x 102	•	•	•	•	•	•		SLR5.100	\$320.00
	10A	240W	100-120 / 200-240VAC ⁵	124 x 120 x 102	•	•	•	•	•	•		SLR10.100	\$460.00

Conformal Coated & Network Power Supplies



Dimension Q-Series



DeviceNet
CONFORMANCE TESTED



Conformal Coated Supply
QT20.241-C1

- Coated in an Acrylic Varnish
- Holds Components Firmly in Place
- Better Suited for these Applications
 - Shock & Vibration
 - Dust & Contaminations
 - Thermal Shock

Dimension Q-Series
QS5.DNET

- DeviceNet Conformance Tested
- Sized for DeviceNet Cables
- Efficiency up to 93%
- Spring Clamp Terminals
- Operational Temperature: -25° to +70°C
- MTBF over 2,000,000 hours

Classic SilverLine
SLA4.100

- Long Standing Usage in the Industry
- Efficiency up to 92%
- Screw Terminals
- Sized to AS-Interface cables
- Operational Temperature: -10° to +70°C
- MTBF over 1,900,000 hours

Conformal Coated Power Supplies

Output Voltage	Output Current	Watts ¹	AC Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Screw Terminals	Spring Clamp	Active Power Factor	Parallel Capable	UL60950-1 DC Input	20% Power Boost	50% Bonus Power	DC OK Contact	SEMI F47 Compliant	Class I Division 2	ATEX & IECEx	PULS	Catalog Number	List Price (USD)		
12 - 15VDC	15A	180W	100-240VAC ⁴	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●		QS10.121-A1	\$660.00		
				75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	●	●		ML50.109	\$180.00
24 - 28VDC	4.2A	100W	100-120 / 200-240VAC ⁵	75 x 73 x 103	●	●	●	●	●	●	●	●	●	●	●		ML100.109	\$250.00		
				124 x 32 x 117	●	●	●	●	●	●	●	●	●	●	●	●		CS5.241-C1	\$255.00	
				124 x 40 x 117	●	●	●	●	●	●	●	●	●	●	●	●	●		QS5.241-A1	\$450.00
				124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	●	●		QS10.241-C1	\$480.00
	10A	240W	100-240VAC ⁴	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	●		QS10.241-A1	\$580.00	
				124 x 89 x 117	●	●	●	●	●	●	●	●	●	●	●	●	●		SL10.309	\$480.00
				124 x 65 x 127	●	●	●	●	●	●	●	●	●	●	●	●	●		CPS20.241-C1	\$540.00
				124 x 82 x 127	●	●	●	●	●	●	●	●	●	●	●	●	●		QS20.241-C1	\$605.00
20A	480W	100-240VAC ⁴	124 x 82 x 127	●	●	●	●	●	●	●	●	●	●	●	●		QS20.241-A1	\$850.00		
			124 x 65 x 127	●	●	●	●	●	●	●	●	●	●	●	●	●		QT20.241-C1	\$605.00	
			124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	●	●		QS10.481-A1	\$716.00	
			124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	●	●		QS10.481-A1	\$716.00	

Single Phase DeviceNet Power Supplies - ODVA Compliance Tested

Output Voltage	Output Current	Watts	AC Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Screw Terminals	Spring Clamp	Power Factor Connection	UL60950-1 DC Input	Ground Fault Monitor	DC OK Contact	SEMI F47 Compliant	NEC Class 2	Class I Division 2	ATEX & IECEx	PULS	Catalog Number	List Price (USD)
24VDC	3.8A	92W	100-240VAC ⁴	124 x 40 x 117	●	●	●	●	●	●	●	●	●	●		QS5.DNET	\$335.00
	8A	192W	100-240VAC ⁴	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●		QS10.DNET	\$470.00

AS-Interface Power Supplies

Output Voltage	Output Current	Watts	AC Input Voltage ² (50 - 60Hz)	Dimensions L x W x D (mm)	Screw Terminals	Spring Clamp	Power Factor Connection	UL60950-1 DC Input	Ground Fault Monitor	DC OK Contact	SEMI F47 Compliant	NEC Class 2	Class I Division 2	ATEX & IECEx	PULS	Catalog Number	List Price (USD)		
30.5VDC	2.8A	85W	100-120 / 200-240VAC ³	124 x 49 x 102	●	●	●	●	●	●	●	●	●	●		SLA3.100	\$506.00		
				124 x 73 x 102	●	●	●	●	●	●	●	●	●	●	●	●		SLA4.100	\$574.00
	4A	120W	18-32VDC	124 x 40 x 102	●	●	●	●	●	●	●	●	●	●	●		SLAD4.100	\$662.00	
				124 x 91 x 102	●	●	●	●	●	●	●	●	●	●	●	●		SLA8.100	\$788.00
				124 x 129 x 117	●	●	●	●	●	●	●	●	●	●	●	●		SLA8.300	\$1,082.00

ATEX & IECEx Approved Products



Dimension Q-Series
QS40.241

- Efficiency up to 94.6%
- Screw Terminals
- Remote Shutdown
- 50% Current Reserves
- Operational Temperature: -25° to +60°C



Dimension Q-Series
QS20.241-A1

- Efficiency up to 93%
- Spring Clamp Terminals
- Conformal Coated
- 50% Current Reserves
- Operational Temperature: -25° to +60°C



Dimension YR-Series
YR40.241

- MOSFET based De-Coupling Module
- Ultra Low Voltage Drop
- Screw Terminals
- Easy Wiring – Negative Terminal Included
- Operational Temperature: -40° to +60°C



Power Supplies & DC/DC Converters

Features

Output Voltage	Output Current	Watts ¹	Input Voltage ²	Dimensions L x W x D (mm)	Screw Terminals	Spring Clamp	Active Power Factor	Parallel Capable	UL606950-1 DC Input	20% Power Boost	50% Bonus Power	DC OK Contact	SEMI F47 Compliant	NEC Class 2	Class 1 Division 2	ATEX & IECEx	PULS	Catalog Number	List Price (USD)	
12 - 15VDC	15A	180W	100-240VAC ⁴	124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•		QS10.121-A1	\$660.00	
	30A	360W	100-240VAC ⁴	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•		CPS20.121	\$500.00	
24 - 28VDC	5A	120W	100-240VAC ⁴	124 x 40 x 117	•	•	•	•	•	•	•	•	•	•	•	•		QS5.241-A1	\$450.00	
			100-240VAC ⁴	124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•	•		QS10.241-A1	\$580.00
	20A	480W	100-240VAC ⁴	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•		CPS20.241	\$430.00
			100-240VAC ⁴	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•		CPS20.241-C1	\$540.00
			100-240VAC ⁴	124 x 82 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•		QS20.241-A1	\$850.00
40A	960W	100-240VAC ⁴	124 x 125 x 127	•	•	•	•	•	•	•	•	•	•	•	•	•		QS40.241	\$850.00	
36 - 42VDC	13.3A	480W	100-240VAC ⁴	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•		CPS20.361	\$500.00	
	26.7A	960W	100-240VAC ⁴	124 x 125 x 127	•	•	•	•	•	•	•	•	•	•	•	•		QS40.361	\$1,060.00	
48 - 56VDC	5A	240W	100-240VAC ⁴	124 x 60 x 117	•	•	•	•	•	•	•	•	•	•	•	•		QS10.481-A1	\$716.00	
	10A	480W	100-240VAC ⁴	124 x 65 x 127	•	•	•	•	•	•	•	•	•	•	•	•		CPS20.481	\$500.00	
	20A	960W	100-240VAC ⁴	124 x 125 x 127	•	•	•	•	•	•	•	•	•	•	•	•		QS40.481	\$970.00	
30.5VDC (AS-i)	2.8A	85W	100-120 / 200-240VAC ³	124 x 49 x 102	•	•	•	•	•	•	•	•	•	•	•	•		SLA3.100	\$506.00	
24VDC	3.8A	92W	14.4-32VDC	124 x 32 x 102	•	•	•	•	•	•	•	•	•	•	•	•		CD5.241-L1	\$360.00	
				124 x 32 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•		CD5.241	\$300.00
24 - 28VDC	5A	120W	18-32VDC	124 x 32 x 102	•	•	•	•	•	•	•	•	•	•	•	•		CD5.241-S1	\$345.00	
				124 x 32 x 102	•	•	•	•	•	•	•	•	•	•	•	•	•			

Redundancy Modules

Features

Output Voltage ²	Output Current	Power Supply Size	Input Voltage ²	Redundancy Method	Dimensions L x W x D (mm)	Screw Terminals	Spring Clamp Terminals	Alarm Contacts	Class 1 Division 2	ATEX & IECEx	PULS	Catalog Number	List Price (USD)
10 - 60VDC	10A	2 x 5A or 1 x 10A	10-60VDC	Diode	75 x 45 x 91	•	•	•	•	•		MLY02.100	\$61.00
			10-60VDC	Diode	75 x 45 x 91	•	•	•	•	•	•		MLY10.241
	20A	2 x 10A	10-60VDC	Diode	124 x 32 x 102	•	•	•	•	•	•	YR2.DIODE	\$100.00
12 - 28VDC	40A	2 x 20A	12-28VDC	MOSFET	124 x 36 x 127	•	•	•	•	•	•	YR40.242	\$130.00
			12-28VDC	MOSFET	124 x 46 x 127	•	•	•	•	•	•	•	YR40.245
	80A	2 x 40A	12-28VDC	MOSFET	124 x 46 x 127	•	•	•	•	•	•	YR80.242	\$210.00
24 - 28VDC	40A	2 x 20A	24-28VDC	MOSFET	124 x 36 x 127	•	•	•	•	•	•	YR40.241	\$194.00
			24-28VDC	MOSFET	124 x 46 x 127	•	•	•	•	•	•	•	YR80.241
24 - 56VDC	40A	2 x 20A	24-56VDC	MOSFET	124 x 46 x 127	•	•	•	•	•	•	YR40.482	\$194.00
24 - 60VDC	20A	2 x 10A	24-60VDC	Diode	124 x 32 x 117	•	•	•	•	•	•	YRM2.DIODE	\$135.00

1 - For higher wattage applications, paralleling of power supplies is possible. PULS recommends using units that are "Parallel Capable" for parallel applications.

2 - See data sheet for input voltage tolerances.

3 - Manual select input voltage.

4 - Wide range input voltage.

5 - Auto select input voltage.

DC/DC Converters



Dimension C-Series
CD5.241

- Compact Design
- Efficiency up to 91%
- Screw Terminals
- Soft-Start Feature
- 20% Current Reserves
- Operational Temperature: -25° to +70°C
- MTBF over 1,900,000 hours



Dimension Q-Series
QTD20.241

- Perfect for Drive Systems
- Efficiency up to 95%
- Spring Clamp Terminals
- Robust Input Filters
- Special DC Input Fuses
- 25% Current Reserves
- Operational Temperature: -25° to +70°C
- MTBF over 500,000 hours

DC/DC Converters

Features

Output Voltage	Output Current	Watts ¹	DC Input Voltage ²	Dimensions L x W x D (mm)	Screw Terminals	Spring Clamp	Parallel Capable	20% Power Boost	DC OK Contacts	NEC Class 2	Class I Division 2	ATEX & IECEX	PULS	Catalog Number	List Price (USD)
4.5 - 5.5VDC	8A	40W	18 - 36VDC	124 x 49 x 102	•									SLD2.100	\$310.00
12 - 15VDC	8A	96W	18 - 32VDC	124 x 32 x 102	•									CD5.121	\$335.00
24VDC	3.8A	92W	14.4 - 32VDC	124 x 32 x 102	•						•	•		CD5.241-L1	\$360.00
	4A	96W	8.4 - 16VDC	124 x 32 x 102	•						•	•		CD5.243	\$330.00
23 - 28VDC	5A	120W	18 - 32VDC	124 x 32 x 102	•						•	•		CD5.241	\$300.00
			36 - 60VDC	124 x 32 x 102	•							•	•		CD5.241-S1
24 - 28VDC	20A	480W	110 - 300VDC	124 x 65 x 127	•						•	•		CPS20.241-D1	\$500.00
48 - 56VDC	10A	480W	110 - 300VDC	124 x 65 x 127	•						•	•		CPS20.481-D1	\$540.00

DC/DC Converter - For Drive Systems

Features

Output Voltage	Output Current	Watts ¹	DC Input Voltage ²	Dimensions L x W x D (mm)	Screw Terminals	Spring Clamp	Parallel Capable	25% Power Boost	DC OK Contacts	NEC Class 2	Class I Division 2	ATEX & IECEX	PULS	Catalog Number	List Price (USD)
24 - 28VDC	20A	480W	480 - 840VDC	124 x 65 x 117		•	•	•	•					QTD20.241	\$544.00

1 - For higher wattage applications, paralleling of units is possible. PULS recommends using units that are "Parallel Capable" for parallel applications.

2 - See data sheet for input voltage tolerances.

3 - Wide range input voltage.

Power Supplies with DC Input

Features

Power Supplies that Operate with a DC Input - 110-300VDC²

Output Voltage	Output Current	Watts ¹	AC Input Voltage ^{2,3} (50 - 60Hz)	Dimensions L x W x D (mm)	Features										Catalog Number	List Price (USD)		
					Screw Terminals	Spring Clamp	Active Power Factor Parallel Capable	20% Power Boost	50% Bonus Power	DC OK Contact	SEMI F-47 Compliant	NEC Class 2	Class I Division 2	ATEX & IECEx			Conformal Coated	-40°C Operating Temp
5 - 5.5VDC	3A	15W	100-240VAC	75 x 22.5 x 91	•	•						•	•				ML15.051	\$72.00
	5A	25W	100-240VAC	75 x 45 x 91	•	•						•	•				ML30.101	\$130.00
10 - 12VDC	3A	30W	100-240VAC	75 x 45 x 91	•	•						•	•				ML30.102	\$135.00
12 - 15VDC	1.3A	15W	100-240VAC	75 x 22.5 x 91	•	•						•	•				ML15.121	\$72.00
	4.2A	50W	100-240VAC	75 x 45 x 91	•	•						•	•				ML50.102	\$155.00
	4.5A	54W	100-240VAC	75 x 45 x 91	•	•						•	•				ML60.121	\$140.00
+/-12 or +/-15VDC	1.4-2.8A	36W	100-240VAC	75 x 45 x 91	•	•						•	•				ML60.122	\$178.00
	3.8A	92W	100-240VAC	124 x 40 x 117	•	•	•		•	•	•	•	•				ML30.106	\$140.00
24 - 28VDC	0.63A	15W	100-240VAC	75 x 22.5 x 91	•	•						•	•				QS5.DNET	\$335.00
	1.3A	30W	100-240VAC	75 x 22.5 x 91	•	•						•	•				ML15.241	\$64.00
				75 x 45 x 91	•	•								•	•		ML30.241	\$90.00
	2.1A	50W	100-240VAC	75 x 45 x 91	•	•						•	•				ML30.100	\$100.00
					•	•									•	•		ML50.100
	2.5A	60W	100-240VAC	75 x 45 x 91	•	•						•	•				ML50.109	\$180.00
					•	•									•	•		ML60.241
	3.3A	80W	100-240VAC	124 x 32 x 102	•	•						•	•				ML60.242	\$167.00
	3.4A				•	•								•	•			CS3.241
	48 - 56VDC	5A	240W	100-240VAC	124 x 40 x 117	•	•	•		•	•	•	•	•				QS3.241
10A		240W	100-240VAC	124 x 60 x 117	•	•	•		•	•	•	•	•				QS5.241	\$281.00
1.05A		50W	100-240VAC	75 x 45 x 91	•	•	•		•	•	•	•	•				QS5.241-A1	\$450.00
48 - 56VDC	5A	240W	100-240VAC	124 x 60 x 117	•	•	•		•	•	•	•	•				QS10.241-D1	\$405.00
	1.05A	50W	100-240VAC	75 x 45 x 91	•	•	•		•	•	•	•	•				ML50.105	\$140.00
48 - 56VDC	5A	240W	100-240VAC	124 x 60 x 117	•	•	•		•	•	•	•	•				QS10.481-D1	\$540.00

Features

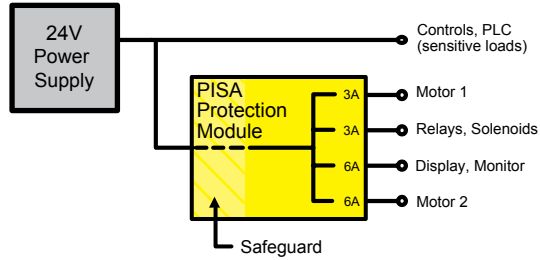
Power Supplies that Operate with a DC Input - 110-150VDC²

Output Voltage	Output Current	Watts ¹	AC Input Voltage ^{2,3} (50 - 60Hz)	Dimensions L x W x D (mm)	Features										Catalog Number	List Price (USD)		
					Screw Terminals	Spring Clamp	Active Power Factor Parallel Capable	20% Power Boost	50% Bonus Power	DC OK Contact	SEMI F-47 Compliant	NEC Class 2	Class I Division 2	ATEX & IECEx			Conformal Coated	-40°C Operating Temp
12 - 15VDC	15A	180W	100-240VAC	124 x 60 x 117	•	•	•		•	•	•	•	•				QS10.121	\$420.00
24 - 24.5VDC	8A	192W	100-240VAC	124 x 60 x 117	•	•	•		•	•	•	•	•				QS10.121-A1	\$660.00
					•	•	•		•	•	•	•	•				QS10.DNET	\$470.00
24 - 28VDC	10A	240W	100-240VAC	124 x 60 x 117	•	•	•		•	•	•	•	•				QS10.241	\$384.00
					•	•	•		•	•	•	•	•				QS10.241-A1	\$580.00
	•	•	•		•	•	•	•	•	•				QS10.241-C1	\$480.00			
	•	•	•		•	•	•	•	•	•				Q20.241	\$533.00			
24 - 28VDC	20A	480W	100-240VAC	124 x 82 x 127	•	•	•		•	•	•	•	•				QS20.241-A1	\$850.00
					•	•	•		•	•	•	•	•				QS20.241-C1	\$605.00
28 - 32VDC	8A	240W	100-240VAC	124 x 60 x 117	•	•	•		•	•	•	•	•				QS10.301	\$444.00
36 - 42VDC	13.3A	480W	100-240VAC	124 x 82 x 127	•	•	•		•	•	•	•	•				QS20.361	\$694.00
48 - 56VDC	5A	240W	100-240VAC	124 x 60 x 117	•	•	•		•	•	•	•	•				QS10.481	\$513.00
48 - 55VDC	10A	480W	100-240VAC	124 x 82 x 127	•	•	•		•	•	•	•	•				QS10.481-A1	\$716.00
					•	•	•		•	•	•	•	•				QS20.481	\$583.00

24V Protection Modules



PISA11
PISA11.401



This protection module fulfills two basic functions. First, it distributes the current of a large power source to four lower current output channels, allowing for smaller wires to be used. The second function is to permit only so much current on the outputs that the input voltage of this unit (which corresponds to the output voltage of the power supply) does not fall below 21V. This ensures a reliable supply voltage for sensitive equipment, such as PLCs, controls or sensors, when they are connected directly to the same power supply as the PISA protection module.

The protection module has one 24V input and four output channels, to which the current is distributed. Each output channel is equipped with a redundant electronic over-current protection, which prevents overloads. All four output channels will shutdown simultaneously if the current of one individual channel or the maximum allowed current for the protection module is exceeded.

A safeguard circuit in the input stage of the PISA module works like a valve. It permits only so much current that the input voltage does not drop below 21V. In case the input voltage would fall below this value (due to overloads, too small of a power supply or high inrush currents) all four output channels will be actively current limited and will shutdown after a certain period of time.

Features

PISA11 Protection Module

Output Voltage	Total Output Current	Output Current per Channel				Dimensions L x W x D (mm)	Features						Catalog Number	List Price (USD)		
		Channel 1	Channel 2	Channel 3	Channel 4		Screw Terminals	Remote ON/OFF	DC OK Contacts	NEC Class 2	Class I Division 2	Sync Feature			ATEX & IECEx	
24VDC	4A	1A	1A	1A	1A	75 x 45 x 91	•	•	•	•	•	•	•	•	PISA11.401	\$120.00
	8A	2A	2A	2A	2A		•	•	•	•	•	•	•	•	PISA11.402	\$120.00
	12A	3A	3A	3A	3A		•	•	•	•	•	•	•	•	PISA11.403	\$120.00
	16A	4A	4A	4A	4A		•	•	•	•	•	•	•	•	PISA11.404	\$120.00
	20A	6A	6A	6A	6A		•	•	•	•	•	•	•	•	PISA11.406	\$120.00
	20A	10A	10A	10A	10A		•	•	•	•	•	•	•	•	PISA11.410	\$120.00
	18A	3A	3A	6A	6A		•	•	•	•	•	•	•	•	PISA11.203206	\$120.00
	20A	6A	6A	12A	12A		•	•	•	•	•	•	•	•	PISA11.206212	\$120.00
	14.8A	3.7A	3.7A	3.7A	3.7A	•	•	•	•	•	•	•	•	PISA11.CLASS2	\$120.00	

1 - See data sheet for input voltage tolerances.

Buffer Modules



Dimension Buffer Module
UF20.241



Dimension Buffer Module
SLV20.200



Dimension Buffer Module
UC10.242

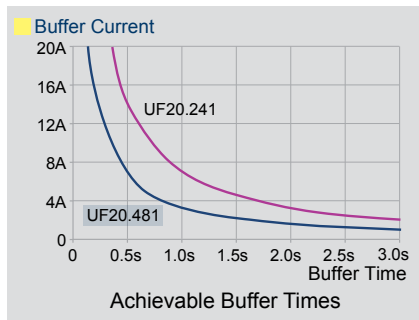
- Bridges Short Power Failures
- Easy Installation

- Built In Ultra Capacitors
- Isolated Input & Output

Features

Buffer Modules - Electrolytic Capacitors

Output Voltage	Output Current	DC Input Voltage ¹	Dimensions L x W x D (mm)	Features				Catalog Number	List Price (USD)
				Screw Terminals	Spring Clamp Terminals	Signaling Terminals	Parallel Capable		
24 - 28.8VDC	20A	24-28.8VDC	124 x 64 x 102	•	•	•	•	UF20.241	\$365.00
			124 x 64 x 102	•	•	•	•	SLV20.200	\$340.00
48 - 56VDC	20A	48-56VDC	124 x 64 x 102	•	•	•	•	UF20.481	\$365.00

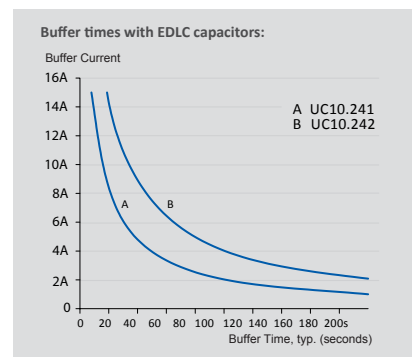


Buffer Module Advantages

- No Service Needed for Entire Life Span
- Stabilized Output Voltage in Buffer Module
- Operational to 70°C
- Parallel Capable for Increased Buffer Time or Increased Buffer Current
- Selectable Back Up Behavior

Buffer Modules - EDLC Ultra Capacitors

Output Voltage	Output Current	DC Input Voltage ¹	Energy Storage	Dimensions L x W x D (mm)	Features				Catalog Number	List Price (USD)
					Screw Terminals	Spring Clamp Terminals	Signaling Terminals	PC Mode		
22.5VDC	15A	24-30VDC	6 kW	124 x 126 x 117	•	•	•	•	UC10.241	\$800.00
			12 kW	124 x 198 x 117	•	•	•	•	UC10.242	\$1,200.00



Ultra Cap Buffer Advantages

- No Service Needed for Entire Life Span – Battery Free Back Up
- Stabilized Output Voltage in Buffer Mode
- Fully Rated from -40° to +60°C
- Output De-Coupled from Input Allows for Buffered & Un-Buffered Branches
- PC Mode Feature

DC-UPS Systems



Dimension DC-UPS Controllers
UB10.241

- Regulated Output Voltage
- Electronically Protected
- Extensive Battery Management



UB20.241



Dimension Integrated DC-UPS
UBC10.241

- Integrated 5Ah Battery
- Regulated Output Voltage
- Alternate Temperature Adjustment



Dimension Battery Module
UZK12.071

- DIN-Rail Mountable
- Includes Two Input Fuses
- Convenient Wiring Terminals

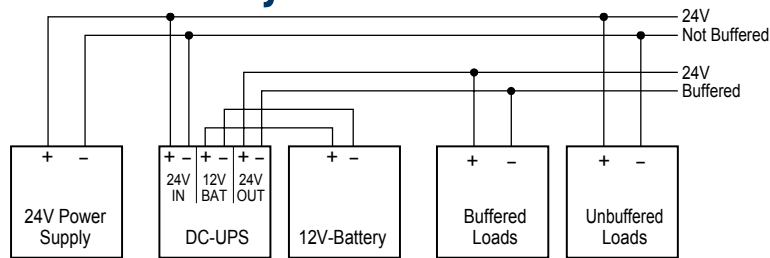
DC-UPS Controllers

Output Voltage	Output Current	Battery Requirements	Input Voltage Power Supply / Battery	Special Features	Fuse Included	Catalog Number	List Price (USD)
12VDC / 24VDC	5A / 7.5A	(1) External 3.9 - 40Ah	24-28.8 / 12VDC	Signaling Terminals		UB10.245	\$511.00
24VDC	10A	(1) External 3.9 - 40Ah	24-28.8 / 12VDC	Signaling Terminals		UB10.241	\$433.00
		(1) External 17 - 130Ah	24-28.8 / 12VDC	Signaling Terminals		UB10.242	\$455.00
		None - Internal 5Ah	24-28.8 / 12VDC	Signaling Terminals	•	UBC10.241	\$542.00
24, 25, or 26VDC	20A	(2) External 3.9 - 150Ah	24-28.8 / 24VDC	Signaling Terminals		UB20.241	\$600.00

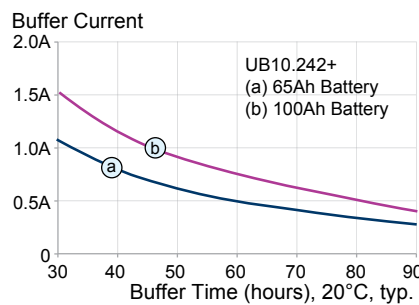
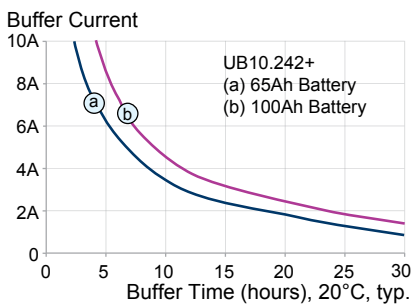
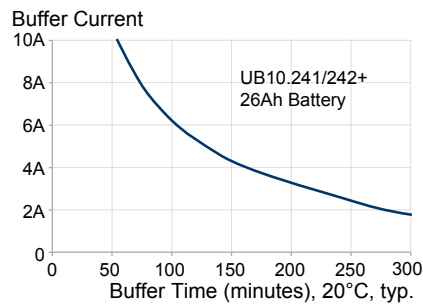
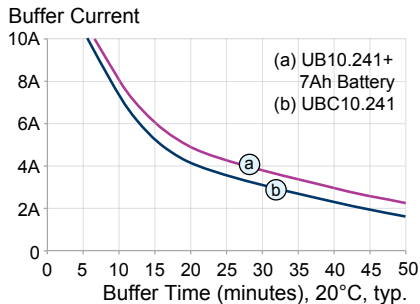
Batteries & Battery Mounting Kits & Accessories

Output Voltage	Battery Size	Battery Type	Description	Fuse Included	Catalog Number	List Price (USD)
12VDC (Only One 12VDC Battery Required for UB10 Series)	5Ah	Battery Only	Replacement Battery for use with UBC10.241		UZB12.051	\$133.00
		With Mounting Kit	Battery with Mounting Kit for use with UB10	•	UZK12.071	\$255.00
	7Ah	Battery Only	Replacement Battery for use with UZK12.071		UZB12.071	\$178.00
		Mounting Kit Only	Mounting Kit for use with 7Ah Battery	•	UZO12.07	\$89.00
	26Ah	With Mounting Kit	Battery with Mounting Kit for use with UB10	•	UZK12.261	\$455.00
		Battery Only	Replacement Battery for use with UZK12.261		UZB12.261	\$377.00
24VDC (Two 12VDC Batteries Required for UB20)	7Ah	With Mounting Kit	Battery with Mounting Kit for use with UB20	•	UZK24.071	\$360.00
		Battery Only	Replacement Battery for use with UZK24.071		UZB12.071	\$178.00
		Mounting Kit Only	Mounting Kit for use with 7Ah Battery Pair	•	UZO24.071	\$140.00
	12Ah	With Mounting Kit	Battery with Mounting Kit for use with UB20	•	UZK24.121	\$490.00
		Battery Only	Replacement Battery for use with UZK24.121		UZB12.121	\$190.00
		Mounting Kit Only	Mounting Kit for use with 12Ah Battery Pair	•	UZO24.121	\$150.00
-	-	-	External PT1000 Temperature Sensor for UB20.241	•	UZS24.100	\$40.00

10A DC-UPS System



Typical Wiring Scheme of a PULS DC-UPS

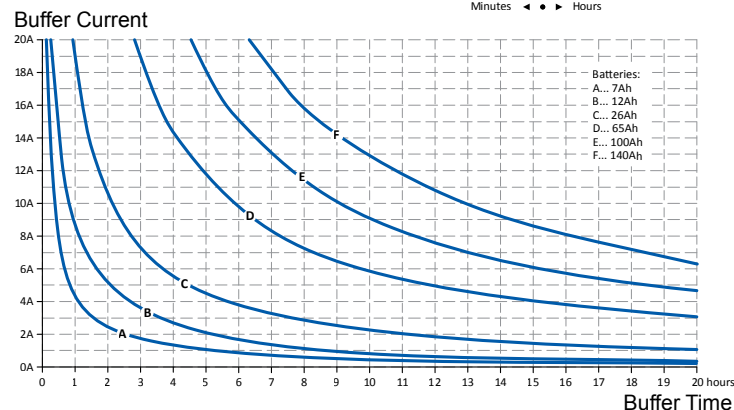
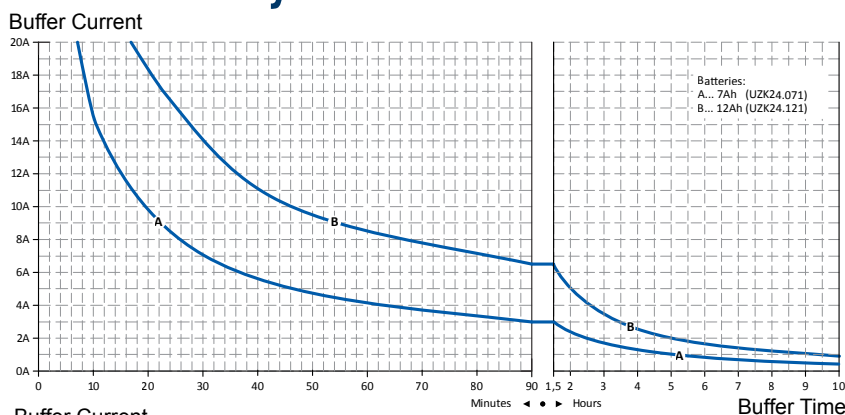


Achievable Battery Times

UB10 Series Advantages

- Requires Single 12VDC Battery to Back Up 24V Loads
- Superior Battery Management for Longest Service Life
- Stabilized Output Voltage in Buffer Mode
- Easy Battery Replacement – No Matched Batteries Required
- Output De-Coupled from Input Allows for Buffered & Un-Buffered Branches
- Replace Battery Signal Included
- Selectable Buffer Time Limiter
- Electronic Overload Protection

20A DC-UPS System



UB20 Series Advantages

- Independent Charging & Monitoring Circuits for Each Battery
- Selectable Output Voltage – 22.5V, 24V, 25V, or 26V
- Stabilized Output Voltage in Buffer Mode
- External Temperature Sensor Option
- Superior Battery Management for Longest Service Life
- Replace Battery Signal Included
- Selectable Buffer Time Limiter
- Electronic Overload Protection

Mounting Kits



ZM1.UBC10

Designed for Direct Panel or Wall Mounting of the UBC10.241



ZM1.WALL

Designed for Direct Panel or Wall Mounting of Smaller Dimension Units



SLZ02

Designed for Direct Panel or Wall Mounting of SilverLine Units



ZM2.WALL

Designed for Direct Panel or Wall Mounting of Larger Dimension Units



ZM11.SIDE – ZM15.SIDE

Designed for Sideways Mounting of Dimension Units. For Use with or without DIN-Rail



ZM3.WALL

Designed for Direct Panel or Wall Mounting of 45mm Wide MiniLine Units

Mounting Kits

PULS

Mounting Type	Power Supply Type	Catalog Number	List Price (USD)
Panel Mount	All SilverLine (SL)	SLZ02	\$18.00
Panel Mount	Dimension - C-Series, QS3, QS5, QS10, QT20, QTD20, QS20.244, UF20, UB10, YR2.DIODE & YRM2.DIODE	ZM1.WALL	\$18.00
Panel Mount	Dimension - CPS20, QS20, QS40, QT40, UB20, UC10, XT40, YR40 & YR80	ZM2.WALL	\$33.00
Panel Mount	ML (45mm Housing Width) - ML30.10x, ML50, ML60, ML70, & PISA11	ZM3.WALL	\$12.00
Panel Mount	UBC10	ZM1.UBC10	\$33.00
Side Mount	CD5, CS3, CS5, QS3, YR2.DIODE & YRM2.DIODE	ZM11.SIDE	\$27.00
Side Mount	CT5 & QS5	ZM12.SIDE	\$27.00
Side Mount	CS10, CS20, CT10 & QS10	ZM13.SIDE	\$27.00
Side Mount	QT20 & UF20	ZM14.SIDE	\$31.00
Side Mount	QS20	ZM15.SIDE	\$31.00

Alpha-Numeric Listing with Dimensions & Agency Approvals

Catalog Number	Item Description	Dimensions L x W x D (mm)	CE & ROHS	UL 508	UL/IEC 60950-1	Class 1 Division 2	ATEX & IECEx	NEC Class 2	Marine (GL & ABS)	DeviceNet Approved	SEMI F47	GOST (Russia)	AS-Interface Approved	List Price (USD)
CD5.121	DC/DC Converter, 96W, 18-32VDC In, 12-15VDC Out, 8-6.4A	124 x 32 x 102	●	●	●	●	●	●	●	●	●	●	●	\$335
CD5.241	DC/DC Converter, 120W, 18-32VDC In, 23-28VDC Out, 5-4.3A	124 x 32 x 102	●	●	●	●	●	●	●	●	●	●	●	\$300
CD5.241-L1	DC/DC Converter, 92W, 14-32VDC In, 24VDC Out, 3.8A, NEC Class 2	124 x 32 x 102	●	●	●	●	●	●	●	●	●	●	●	\$360
CD5.241-S1	DC/DC Converter, 120W, 18-32VDC In, 23-28VDC Out, 5-4.3A with Signal Contacts	124 x 32 x 102	●	●	●	●	●	●	●	●	●	●	●	\$345
CD5.242	DC/DC Converter, 120W, 36-60VDC In, 23-28VDC Out, 5-4.3A	124 x 32 x 102	●	●	●	●	●	●	●	●	●	●	●	\$325
CD5.243	DC/DC Converter, 96W, 8-16VDC In, 23-28VDC Out, 4.2-3.4A	124 x 32 x 102	●	●	●	●	●	●	●	●	●	●	●	\$330
CPS20.121	Power Supply, 480W, 100-240VAC 1PH, 12-15VDC, 30-27A	124 x 65 x 127	●	●	●	●	●	●	1	●	●	●	●	\$500
CPS20.241	Power Supply, 480W, 100-240VAC 1PH, 24-28VDC, 20-17.5A	124 x 65 x 127	●	●	●	●	●	●	1	●	●	●	●	\$430
CPS20.121-C1	Power Supply, 480W, 100-240VAC 1PH, 24-28VDC, 20-17.5A with Conformal Coating	124 x 65 x 127	●	●	●	●	●	●	1	●	●	●	●	\$540
CPS20.241-D1	Power Supply, 480W, 88-375VDC In, 24-28VDC, 20-17.5A	124 x 65 x 127	●	●	●	●	●	●	●	●	●	●	●	\$500
CPS20.361	Power Supply, 480W, 100-240VAC 1PH, 36-42VDC, 13.3-11.4A	124 x 65 x 127	●	●	●	●	●	●	1	●	●	●	●	\$500
CPS20.481	Power Supply, 480W, 100-240VAC 1PH, 48-55VDC, 10-8.7A	124 x 65 x 127	●	●	●	●	●	●	1	●	●	●	●	\$500
CPS20.481-D1	Power Supply, 480W, 88-375 VDC In, 48-55VDC, 10-8.7A	124 x 65 x 127	●	●	●	●	●	●	●	●	●	●	●	\$540
CS10.241	Power Supply, 240W, 100-120 / 200-240VAC 1PH, 24-28VDC, 10-8.6A	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	\$275
CS10.241-S1	Power Supply, 240W, 100-120 / 200-240VAC 1PH, 24-28VDC, 10-8.6A with Spring Clamps	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	\$305
CS10.242	Power Supply, 240W, 100-120 / 200-240VAC 1PH, 24-28VDC, 10-8.6-A with PFC	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	\$315
CS10.243	Power Supply, 240W, 100-120VAC 1PH, 24-28VDC, 10-8.6A	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	\$250
CS10.244	Power Supply, 240W, 200-240VAC 1PH, 24-28VDC, 10-8.6A	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	\$250
CS10.481	Power Supply, 240W, 100-120 / 200-240VAC 1PH, 48-52VDC, 5-4.6A	124 x 60 x 117	●	●	●	●	●	●	●	●	●	●	●	\$344
CS3.241	Power Supply, 80W, 100-240VAC 1PH, 24-28VDC, 3.3-2.7A	124 x 32 x 102	●	●	●	●	●	●	●	●	●	●	●	\$155
CS5.241	Power Supply, 120W, 100-120 / 200-240VAC 1PH, 24-28VDC, 5-4.3A	124 x 32 x 117	●	●	●	●	●	●	●	●	●	●	●	\$205
CS5.241-C1	Power Supply, 120W, 100-120 / 200-240VAC 1PH, 24-28VDC, 5-4.3A with Conformal Coating	124 x 32 x 117	●	●	●	●	●	●	●	●	●	●	●	\$255
CS5.241-S1	Power Supply, 120W, 100-120 / 200-240VAC 1PH, 24-28VDC, 5-4.3A with Spring Clamps	124 x 32 x 117	●	●	●	●	●	●	●	●	●	●	●	\$235
CS5.243	Power Supply, 120W, 100-120VAC 1PH, 24-28VDC, 5-4.3A	124 x 32 x 117	●	●	●	●	●	●	●	●	●	●	●	\$180
CS5.244	Power Supply, 120W, 200-240VAC 1PH, 24-28VDC, 5-4.3A	124 x 32 x 117	●	●	●	●	●	●	●	●	●	●	●	\$180
CT10.241	Power Supply, 240W, 380-480VAC 3PH, 24-28VDC, 10-9A	124 x 62 x 117	●	●	●	●	●	●	●	●	●	●	●	\$344
CT10.481	Power Supply, 240W, 380-480VAC 3PH, 48-52VDC, 5-4.6A	124 x 62 x 117	●	●	●	●	●	●	●	●	●	●	●	\$422
CT5.121	Power Supply, 96W, 380-480VAC Input, 12-15VDC, 8-6.4A	124 x 40 x 117	●	●	●	●	●	●	●	●	●	●	●	\$315
CT5.241	Power Supply, 120W, 380-480VAC Input, 24-28VDC, 5-4.5A	124 x 40 x 117	●	●	●	●	●	●	●	●	●	●	●	\$290
ML100.100	Power Supply, 100W, 100-120 / 200-240VAC 1PH, 24-28VDC, 4.2-3.6A	75 x 72.5 x 103	●	●	●	●	●	●	●	●	●	●	●	\$170
ML100.102	Power Supply, 90W, 100-120 / 200-240VAC 1PH, 12-15VDC, 7.5-6A	75 x 72.5 x 103	●	●	●	●	●	●	●	●	●	●	●	\$220
ML100.105	Power Supply, 100W, 100-120 / 200-240VAC 1PH, 48-56VDC, 2.1-1.8A	75 x 72.5 x 103	●	●	●	●	●	●	●	●	●	●	●	\$210
ML100.109	Power Supply, 100W, 100-120 / 200-240VAC 1PH, 24-28VDC, 4.2-3.6A with Conformal Coating	75 x 72.5 x 103	●	●	●	●	●	●	●	●	●	●	●	\$250
ML100.200	Power Supply, 100W, 380-480VAC Input, 24-28VDC, 4.2-3.6A	75 x 72.5 x 103	●	●	●	●	●	●	●	●	●	●	●	\$240
ML15.051	Power Supply, 15W, 100-240VAC 1PH, 5-5.5VDC, 3A	75 x 22.5 x 91	●	●	●	●	●	●	●	●	●	●	●	\$72
ML15.121	Power Supply, 15W, 100-240VAC 1PH, 12-15VDC, 1.3-1A	75 x 22.5 x 91	●	●	●	●	●	●	●	●	●	●	●	\$72
ML15.241	Power Supply, 15W, 100-240VAC 1PH, 24-28VDC, 0.63-0.54A	75 x 22.5 x 91	●	●	●	●	●	●	●	●	●	●	●	\$64
ML30.100	Power Supply, 30W, 100-240VAC 1PH, 24-28VDC, 1.3-1.1A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$100
ML30.101	Power Supply, 25W, 100-240VAC 1PH, 5-5.5VDC, 5-4.5A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$130
ML30.102	Power Supply, 30W, 100-240VAC 1PH, 10-12VDC, 3-2.5A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$135
ML30.106	Power Supply, 36W, 100-240VAC 1PH, ±12 or ±15VDC, 0-2.8A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$140
ML30.241	Power Supply, 30W, 100-240VAC 1PH, 24-28VDC, 1.3-1.1A with Screw Terminals	75 x 22.5 x 91	●	●	●	●	●	●	●	●	●	●	●	\$90
ML50.100	Power Supply, 50W, 100-240VAC 1PH, 24-28VDC, 2.1-1.8A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$124
ML50.101	Power Supply, 50W, 100-240VAC 1PH, 24-28VDC, 2.1-1.8A with Paralleling	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$155
ML50.102	Power Supply, 50W, 100-240VAC 1PH, 12-15VDC, 4.2-3.4A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$155
ML50.105	Power Supply, 50W, 100-240VAC 1PH, 48-56VDC, 1.05-0.9A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$140
ML50.109	Power Supply, 50W, 100-240VAC 1PH, 24-28VDC, 2.1-1.8A with Conformal Coating	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$180
ML50.111	Power Supply, 50W, 100-240VAC 1PH, 24-28VDC, 2.1-1.8A with Screw Terminals	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$155
ML60.121	Power Supply, 54W, 100-240VAC 1PH, 12-15VDC, 4.5-3.6A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$140
ML60.122	Power Supply, 54W, 100-240VAC 1PH, 12-15VDC, 4.5-3.6A with -40°C Rating	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$178
ML60.241	Power Supply, 60W, 100-240VAC 1PH, 24-28VDC, 2.5-2.1A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$110
ML60.242	Power Supply, 60W, 100-240VAC 1PH, 24-28VDC, 2.5-2.1A with -40°C Rating	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$167
ML70.100	Power Supply, 72W, 100-120 / 200-240VAC 1PH, 24-28VDC, 3-2.6A	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$150
ML90.200	Power Supply, 90W, 380-480VAC Input, 24-28VDC, 3.75-3.2A	75 x 72.5 x 103	●	●	●	●	●	●	●	●	●	●	●	\$240
ML95.100	Power Supply, 95W, 100-120 / 200-240VAC 1PH, 24-28VDC, 3.9-3.2A	75 x 72.5 x 103	●	●	●	●	●	●	●	●	●	●	●	\$210
MLY02.100	Redundancy Module, 10-60VDC, 10A, Dual Input	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$61
MLY10.241	Redundancy Module, 10-60VDC, 10A, Dual Input with Screw Terminals	75 x 45 x 91	●	●	●	●	●	●	●	●	●	●	●	\$55
PISA11.203206	Protection Module, 4 Channel Output, 2 x 3A & 2 x 6A - 20A Max	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120
PISA11.206212	Protection Module, 4 Channel Output, 2 x 6A & 2 x 12A - 20A Max	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120
PISA11.401	Protection Module, 4 Channel Output, 4 x 1A	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120
PISA11.402	Protection Module, 4 Channel Output, 4 x 2A	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120
PISA11.403	Protection Module, 4 Channel Output, 4 x 3A	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120
PISA11.404	Protection Module, 4 Channel Output, 4 x 4A	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120
PISA11.406	Protection Module, 4 Channel Output, 4 x 6A - 20A Max	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120
PISA11.410	Protection Module, 4 Channel Output, 4 x 10A - 20A Max	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120
PISA11.CLASS2	Protection Module, 4 Channel Output, 4 x NEC Class 2 Circuits - 14.8A Max	75 x 45 x 91	●	●	●	●	●	●	1	●	●	●	●	\$120

1 - GL Only

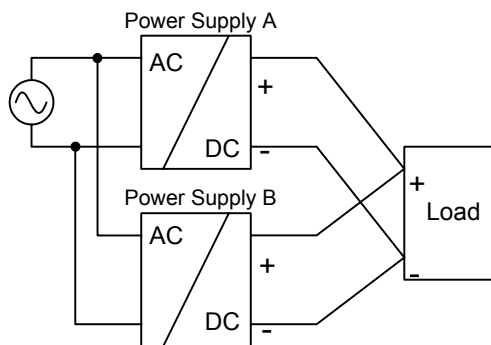
Alpha-Numeric Listing with Dimensions & Agency Approvals

Catalog Number	Item Description	Dimensions L x W x D (mm)	Agency Approvals										List Price (USD)				
			CE & ROHS	UL 508	UL/IEC 60950-1	Class I Division 2	ATEX	NEC Class 2	Marine (GL & ABS)	DeviceNet Approved	SEMI F47	GOST (Russia)		AS-Interface Approved			
SLD2.100	DC/DC Converter, 40W, 18-36VDC In, 4.5-5.5VDC Out, 8A	124 x 49 x 102	●														\$310
SLR01	Redundancy Module, 24-28VDC, 40A, Single Input	124 x 48 x 117	●	●	●										●		\$185
SLR02	Redundancy Module, 24-28VDC, 30A, Dual Input	124 x 48 x 102	●	●	●										●		\$200
SLR10.100	Redundancy Power Supply, 240W, 100-120 / 200-240VAC 1PH, 24VDC, 10A	124 x 120 x 102	●	●	●										●		\$460
SLR2.100	Redundancy Power Supply, 60W, 100-120 / 200-240VAC 1PH, 24VDC, 2.5A	124 x 49 x 102	●	●	●				●						●		\$230
SLR5.100	Redundancy Power Supply, 120W, 100-120 / 200-240VAC 1PH, 24VDC, 5A	124 x 64 x 102	●	●	●										●		\$320
SLV20.200	Buffer Module, 24-28VDC, 20A	124 x 64 x 102	●	●	●										●		\$340
SLZ02	Mounting Bracket, For Panel Mounting SilverLine Power Supplies	42 x 30 x 14	●														\$18
SLZ10	Adapter, 40mm, For S7-300 Rail	125 x 42 x 18	●														\$27
SLZ11	Adapter, 51mm, For S7-300 Rail	125 x 51 x 18	●														\$27
SLZ12	Adapter, 66mm, For S7-300 Rail	125 x 66 x 18	●														\$27
SLZ13	Adapter, 90mm, For S7-300 Rail	125 x 90 x 18	●														\$27
SLZ14	Adapter, 121mm, For S7-300 Rail	125 x 121 x 18	●														\$27
UB10.241	DC-UPS Controller, 24VDC, 10A, For 3.9-40Ah Battery	124 x 49 x 117	●	●	●	●				●					●		\$433
UB10.242	DC-UPS Controller, 24VDC, 10A, For 17-130Ah Battery	124 x 49 x 117	●	●	●	●				●					●		\$455
UB10.245	DC-UPS Controller, 24VDC, 7.5A & 12VDC, 5A, 240W Max, For 3.9-40Ah Battery	124 x 49 x 117	●	●	●	●				●					●		\$511
UB20.241	DC-UPS Controller, 24VDC, 20A, For 3.9-150Ah Battery	124 x 46 x 117	●	●	●	●									●		\$600
UBC10.241	DC-UPS, 24VDC, 10A with Internal 5Ah Battery	124 x 123 x 119	●	●	●	●				●					●		\$542
UBC10.241-N1	DC-UPS, 24VDC, 10A without Internal 5Ah Battery	124 x 123 x 119	●	●	●	●				●					●		\$466
UC10.241	Buffer Module, EDLC Super Capacitors, 6kWs, 24-28VDC, 15A	124 x 126 x 117	●	●	●	●									●		\$800
UC10.242	Buffer Module, EDLC Super Capacitors, 12kWs, 24-28VDC, 15A	124 x 198 x 117	●	●	●	●									●		\$1,200
UF20.241	Buffer Module, 24-28VDC, 20A	124 x 64 x 102	●	●	●	●									●		\$365
UF20.481	Buffer Module, 48-56VDC, 20A	124 x 64 x 102	●	●	●	●									●		\$365
UZB12.051	Battery Only, For DC-UPS, 12V, 5Ah (Replacement)	106 x 90 x 70	●												●		\$133
UZB12.071	Battery Only, For DC-UPS, 12V, 7Ah (Replacement)	98 x 151 x 65	●												●		\$178
UZB12.121	Battery Only, For DC-UPS, 12V, 12Ah (Replacement)	98 x 151 x 98	●												●		\$190
UZB12.261	Battery Only, For DC-UPS, 12V, 26Ah (Replacement)	125 x 175 x 166	●												●		\$377
UZK12.071	Battery with Mounting Kit, For DC-UPS, 12V, 7Ah	124 x 155 x 112	●							●					●		\$255
UZK12.261	Battery with Mounting Kit, For DC-UPS, 12V, 26Ah	158 x 214 x 179	●							●					●		\$445
UZK24.071	Battery with Mounting Kit, For DC-UPS, 24V, 7Ah	186 x 137 x 120	●							●					●		\$360
UZK24.121	Battery with Mounting Kit, For DC-UPS, 24V, 12Ah	186 x 203 x 120	●							●					●		\$490
UZO12.07	Mounting Kit Only, For 7Ah Battery	124 x 155 x 112	●							●					●		\$89
UZO12.26	Mounting Kit Only, For 26Ah Battery	158 x 214 x 179	●							●					●		\$89
UZO24.071	Mounting Kit Only, For 24V, 7Ah Batteries	186 x 137 x 120	●							●					●		\$140
UZO24.121	Mounting Kit Only, For 24V, 12Ah Batteries	186 x 203 x 120	●							●					●		\$150
UZS24.100	Sensor Board, For 24V Battery Modules	23 x 110.5 x 15	●												●		\$40
XT40.241	Power Supply for Power Applications, 960W, 380-400VAC 3PH, 24VDC, 40A	124 x 96 x 157	●	●	●										●		\$620
XT40.242	Power Supply for Power Applications, 960W, 480VAC 3PH, 24VDC, 40A	124 x 96 x 157	●	●	●										●		\$620
XT40.361	Power Supply for Power Applications, 960W, 380-400VAC 3PH, 36VDC, 26.6A	124 x 96 x 157	●	●	●										●		\$670
XT40.362	Power Supply for Power Applications, 960W, 480VAC 3PH, 36VDC, 26.6A	124 x 96 x 157	●	●	●										●		\$670
XT40.481	Power Supply for Power Applications, 960W, 380-400VAC 3PH, 48VDC, 20A	124 x 96 x 157	●	●	●										●		\$620
XT40.482	Power Supply for Power Applications, 960W, 480VAC 3PH, 48VDC, 20A	124 x 96 x 157	●	●	●										●		\$620
XT40.721	Power Supply for Power Applications, 960W, 380-400VAC 3PH, 72VDC, 13.3A	124 x 96 x 157	●	●	●										●		\$700
XT40.722	Power Supply for Power Applications, 960W, 480VAC 3PH, 72VDC, 13.3A	124 x 96 x 157	●	●	●										●		\$700
YR2.DIODE	Redundancy Module, 10-60VDC, 20A, Dual Input	124 x 32 x 102	●	●	●	●				●					●		\$100
YR40.241	Redundancy Module, 24-28VDC, 40A, Dual Input	124 x 36 x 127	●	●	●	●				●					●		\$194
YR40.242	Redundancy Module, 12-28VDC, 40A, Dual Input	124 x 36 x 127	●	●	●	●				1					●		\$130
YR40.245	Redundancy Module, 12-28VDC, 40A, Single Input with Plug Connector	124 x 46 x 127	●	●	●	●				1					●		\$194
YR40.482	Redundancy Module, 24-56VDC, 40A, Dual Input	124 x 46 x 127	●	●	●	●				1					●		\$194
YR80.241	Redundancy Module, 24-28VDC, 80A, Dual Input	124 x 46 x 127	●	●	●	●				●					●		\$325
YR80.242	Redundancy Module, 12-28VDC, 80A, Dual Input	124 x 46 x 127	●	●	●	●				1					●		\$210
YRM2.DIODE	Redundancy Module, 24-60VDC, 20A, Dual Input with Monitor	124 x 32 x 117	●	●	●	●				●					●		\$135
ZM1.UBC10	Mounting Bracket, For Panel Mounting UBC10 DC-UPS	156 x 123 x 13	●												●		\$33
ZM1.WALL	Mounting Bracket, For Panel Mounting Dimension Power Supplies	143 x 8 x 7	●														\$18
ZM11.SIDE	Mounting Bracket, For Side Mounting Dimension Power Supplies	65 x 145 x 37	●														\$27
ZM12.SIDE	Mounting Bracket, For Side Mounting Dimension Power Supplies	65 x 145 x 44	●														\$27
ZM13.SIDE	Mounting Bracket, For Side Mounting Dimension Power Supplies	65 x 145 x 63	●														\$27
ZM14.SIDE	Mounting Bracket, For Side Mounting Dimension Power Supplies	65 x 145 x 76	●														\$31
ZM15.SIDE	Mounting Bracket, For Side Mounting Dimension Power Supplies	65 x 145 x 85	●														\$31
ZM2.WALL	Mounting Bracket, For Panel Mounting Large Dimension Power Supplies	145 x 18 x 28	●														\$33
ZM3.WALL	Mounting Bracket, For Panel Mounting 45mm MiniLine Power Supplies	35 x 45 x 7.5	●														\$12

1 - GL Only

Paralleling to Increase Output Power

Paralleling allows flexibility and modularity to many applications. This approach allows readily available solutions using standard stock items without the need of looking for a custom model. Paralleling also allows future expansion without the need of replacing the original unit. Information as to which units can be paralleled for increased power can be found in this Selection Guide.



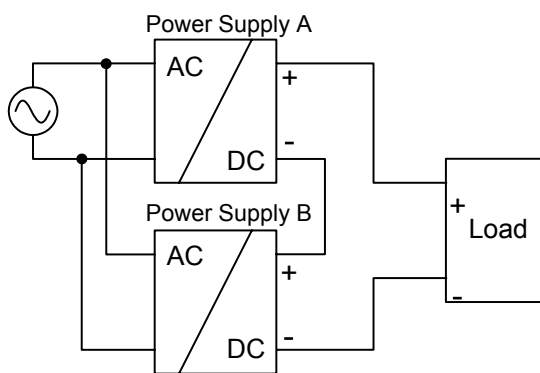
Parallel Connection to Increase the Output Power

Guidelines for Paralleling Supplies

- Only use power supplies in the same family
- Connect as many units in parallel as needed
- A fuse, breaker or redundancy module on the output is only required if more than three units are connected in parallel
- Adjust the output voltage of each supply to the same level
- Keep a side clearance between supplies of at least 15mm and use standard mounting orientation
- Do not mount power supplies above each other
- Leakage current, EMI, inrush current and harmonics will increase when connecting units in parallel

Series Connection to Increase Output Voltage

As with paralleling, a series connection allows flexibility and modularity to many applications. This approach allows readily available solutions using standard stock items without the need of looking for a custom model with a unique output voltage. Many PULS power supplies can be connected in series to increase the output voltage. Please check the data sheet to confirm which units can be put in series.



Series Connection to Increase the Output Voltage

Guidelines for Series Connections

- Only use identical power supplies
- Connect as many units in series as needed, as long as the output voltage does not exceed 150VDC
- Voltages with a potential above 60VDC are no longer SELV and can be hazardous. Install suitable protection for accidental contact
- Grounding of the output is required when the sum of the output voltage is above 60VDC
- Avoid return voltages such as from decelerating motors or batteries from being applied to the output terminals
- Keep a side clearance between supplies of at least 15mm and use standard mounting orientation
- Do not mount power supplies above each other
- Leakage current, EMI, inrush current and harmonics will increase when connecting units in series

PULS

Product Selection & Pricing Guide
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