

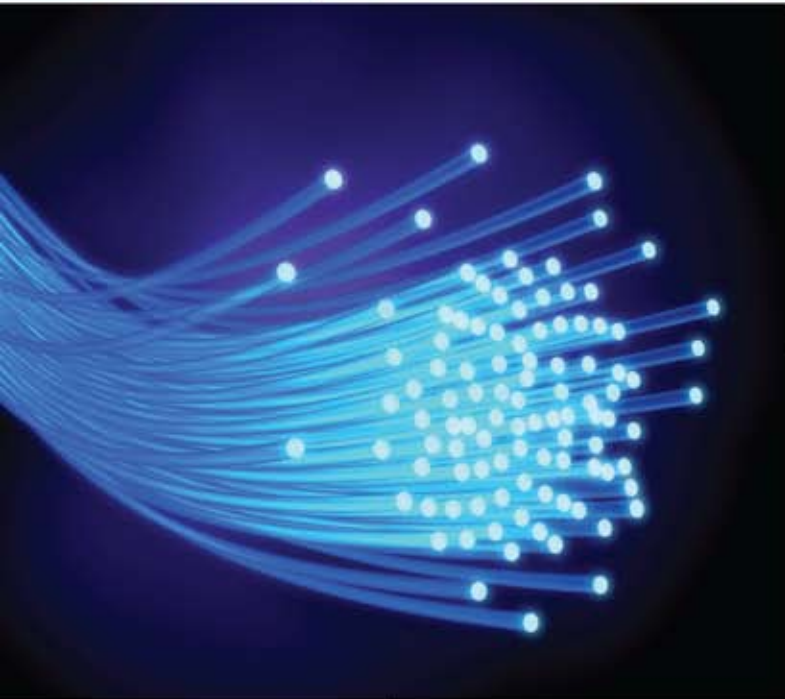


# Current Automation

POWER SOLUTION PROVIDERS

Uninterrupted DC Solutions

[www.rectifier.co.za](http://www.rectifier.co.za)



**NELTA**

Telecom  
DC UPS

**PULS**

Industrial  
DC UPS

**MW**  
MEAN WELL

Security  
DC UPS



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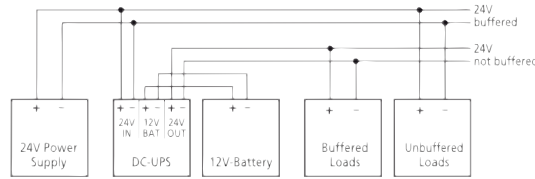
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UBC10.241

### UB Series



A DC-UPS (DC- Uninterruptable Power Supply) is a supplementary device for regulated power supplies and can bridge voltage interruptions on 24V-busses. The energy storage element is **one external** or integrated VRLA battery. The unique feature of the PULS DC-UPS is the **"1-Battery-Concept"**, which achieves the longest service life for batteries. For the individual demands of different applications, several DC-UPS controller units are available. PLC's or industrial PC's only require buffering for a few minutes. Therefore, the UBC10.241 or UB10.241 in combination with small batteries provide an optimal solution. Security systems and remote applications often require buffer times of up to 72 hours. For these purposes, the UB10.242 can be used with batteries up to 130Ah. A DC-UPS with an integrated 12V output is also available.

### Advantages

- Requires only one 12V-battery to buffer 24V circuits.
- Easy battery replacement, no matched batteries required.
- Stabilised output voltage in buffer mode.
- No dips of the DC-voltage during transition from normal to buffer mode.
- Superior battery management for longest battery service life.
- Output is decoupled from the input to separate load circuits into buffered and non buffered sections.
- Electronically overload protected.
- Reverse polarity protection for battery input.
- Extensive and smart diagnostics and monitoring functions.
- "Replace Battery" signal included.
- Selectable buffer time limiter.



UB10.241

Model Number			UBC10.241	UB10.241	UB10.242	UB10.245	
DC-UPS's			Internal Battery	External Battery			
			24V 10A	24V 10A	24V 10A	24V 10A & 12V 5A	
Family			Dimension-U	Dimension-U	Dimension-U	Dimension-U	
Input voltage range			22.5~30V	22.5~30V	22.5~30V	22.5~30V	
Output Voltage	Normal-mode	nom.	Same as input	Same as input	Same as input	Same as input	12V±1%
Output Current	Normal-mode	nom.	15A	15A	15A	15A	5A
Output Power	Normal-mode	nom.	360W	360W	360W	360W	60W
Overload Behaviour	Normal-mode		cont. current	cont. current	cont. current	cont. current	cont. current
Output voltage	Buffer-mode	nom.	22.5V	22.5V	22.5V	22.5V	12V±1%
Output current	Buffer-mode	continuous	10A	10A	10A	10A	5A
	Buffer-mode	<5s	15A	15A	15A	15A	5A
Output Power	Buffer-mode	continuous	240W	240W	240W	240W	60W
Overload Behaviour	Buffer-mode		Shut-down > 5s	Shut-down > 5s	Shut-down > 5s	Shut-down > 5s	Shut-down > 5s
Battery			intern: 1 x 12V	extern: 1 x 12V			
Allowed Battery size			app. 5Ah	≥3.9Ah; ≤40Ah	≥17Ah; ≤130Ah	≥3.9Ah; ≤40Ah	
Charging Current into 12V Battery			1.5A	1.5A	3.0A	1.5A	
Charging Time		typ.	3h	5h/7Ah; 17h/26Ah	9h/26Ah; 34h/100Ah	5h/7Ah; 17h/26Ah	
Buffer Time	5Ah battery	10A load	4 Min. ~6 Min.	4 Min.~6 Min.	-	4 Min. ~6 Min.	
	7Ah battery	10A load	-	5 Min.~6 Min.	-	5 Min.~6 Min.	
	26Ah battery	10A load	-	39Min.~55 Min.	39Min.~55 Min.	37Min.~53 Min.	
	100Ah battery	10A load	-	-	3h ~ 4h	-	
	100Ah battery	0.5A load	-	-	62h ~ 82h	-	
Dimensions		nom.	123 x 124 x 119mm	49 x 124 x 117mm	49 x 124 x 117mm	49 x 124 x 117mm	
Weight		max.	2850g	530g	545g	650g	



UZK12.071



UZK12.261

Please refer to [www.rectifier.co.za](http://www.rectifier.co.za) for detailed specifications.

## Security Backup Series



PSC-60



PSC-100



AD-55 / ADD-55



AD-155 / ADD-155

The PSC-series pcb type of power supply is specially designed for low cost applications in the security industry. Designed by a high performance switching technology, the efficiency is up to 88% and can therefore work in 70°C temperature conditions by only free air convection. This series possess full alarm signals in compliance to the demand of security systems, including AC OK and a battery low alarm. When the utility supply is off and the system goes into battery backup mode, the relay will change state and a signal will be sent out for an early reaction situation. If the battery voltage drops below 11V (for a 12V battery bank) or 22V (for a 24V battery bank), another relay alarm signal will activate the "battery low" situation.

The battery backup loop will be cut off, when the battery voltage drops below 10.5V or 21V to prevent batteries from a deep discharge condition.

Protection for the PSC-100 includes short circuit, overload, and over voltage protection (by fuse) and battery low cut-off for the battery side.

Suitable application are security systems, access control systems, emergency lighting systems, alarm systems, UPS systems, and central monitoring system.



Model No.	Output Volts	Output Current	Charge Volts	Charge Current	Tolerance	Ripple and Noise	Efficiency	Maximum output power	Dimensions
PSC-60A	13.8V	0~4.3A	13.8V	0~1.50	±1%	120mV	84%	59W	101.6 x 50.8 x 29 mm
PSC-60B	27.6V	0~2.15A	27.6V	0~0.75A	±1%	240mV	84%	59W	101.6 x 50.8 x 29 mm
PSC-100A	13.8V	0~7A	13.8V	0~2.50	±1%	100mV	85%	100W	127 x 76.2 x 31 mm
PSC-100B	27.6V	0~3.50A	27.6V	0~1.25A	±1%	100mV	87%	101W	127 x 76.2 x 31 mm
AD-55A	13.8V	0~4.0A	13.4V	0~0.23A	±1%	100mV	71%	51W	159 x 97 x 38 mm
AD-55B	27.6V	0~2.0A	26.5V	0~0.16A	±1%	100mV	74%	54W	159 x 97 x 38 mm
ADD-55A	13.8V	0~3.50A	13.4V	0~0.23A	±1%	100mV	71%	53W	159 x 97 x 38 mm
	5V	0~4.00A							
ADD-55B	27.6V	0~2.00A	26.5V	0~0.16A	±1%	150mV	74%	55W	159 x 97 x 38 mm
	5V	0~4.00A							
AD-155A	13.8V	0~11.5A	13.3V	0~0.5A	±2%	150mV	80%	152W	199 x 110 x 50 mm
AD-155B	27.6V	0~5.5A	27.1V	0~0.5A	±1%	150mV	84%	152W	199 x 110 x 50 mm
AD-155C	54V	0~2.7A	53.5V	0~0.5A	±1%	240mV	84%	157W	199 x 110 x 50 mm
ADD-155A	13.8V	0~10.5A	13.3V	0.5A	±1%	150mV	78%	153W	199 x 110 x 50 mm
	5V	0~3.00A							
ADD-155B	27.6V	0~5.00A	27.1V	0.5A	±1%	200mV	81%	153W	199 x 110 x 50 mm
	5V	0~3.00A							
ADD-155C	54V	0~2.50A	53.5V	0.2A	±1%	240mV	81%	150W	199 x 110 x 50 mm
	5V	0~3.00A							

## DR-UPS40 Series



The DR-UPS40 is a 40A maximum DC UPS (battery control) module for a 24Vdc power system. With external batteries, it can back-up to 40A of current to loads for certain periods of time, depending on the capacity of the batteries. It is equipped with dry contact monitoring signals and LED indicators for DC BUS OK, Battery fail and Battery discharge. Furthermore, the unit has a battery test function to check the condition of external batteries.

Users can customise their own DC UPS system to back up critical loads and capture the status of the whole system.



DC UPS's & Security Series



# Telecom DC UPS DUPS & DMDU Series



DUPS Series



DMDU



DMDU 48V/200W

## Main Features

### DUPS 1215/1232

- Up to 15W Output, peak 24W for 2 seconds.
- User-friendly interface - Dry Contact Communication.
- Wide input voltage range - 90~264Vac.
- Wall Mount and Desktop design for easy Installation.

## Applications

- Optical Network Terminal (ONT)- GPON & BPON
- Asynchronous Digital Subscriber Line (ADSL)
- WiMax, Residential Gateway (RG) and other CPE fiber equipments

### DMDU 4850

## Main Features

- Up to 50W Output, peak 60W for 2 seconds.
- User-friendly interface - Dry Contact Communication.
- Wide input voltage range - 90~264Vac.
- Wall Mount (horizontal or vertical) design for easy Installation.

## Applications

- Optical Network Terminal (ONT)-GPON & BPON
- Optical Line Terminal (OLT)
- WiMax, VoIP ... and other CPE fiber equipments.

Over the past couple of years, there has been a revolution in telecommunication technology. That is the Fiber Termination equipments associated with the FTTx technology.

FTTx is the access network infrastructure that enables full triple play to deliver voice, data and video for the connected home or business. FTTx changes the way we live, work and play. Moreover, FTTx not only needs backup power to prevent utility power failure, but also supports making emergency calls for help. In telecommunications, a network interface device (NID) is a device that serves as the demarcation point between the carrier's local loop and the customer's premises wiring. Fiber to the x (FTTx) is a generic term for any broadband network architecture that uses optical fiber to replace all or part of the usual metal local loop used for last mile telecommunications.

## Technical Specifications

Model No.	Normal Mode Output	Ripple/Noise	Backup Mode	Backup Mode Output	Output Current	Output Power
DUPS 1215	13.5±5% Vdc	≤120mV/ ≤200mV	≥88%	10~13.5±5% Vdc	1.5 Amps	15 W cont / 24W 2 sec.
DUPS 1232	13.5±5% Vdc	≤120mV/ ≤200mV	≥90%	10~13.5±5% Vdc	2.7 Amps	32 W cont / 38W 10min
DMDU-4850	48±10% Vdc	≤480mV/ ≤960mV	≥75%	48±10% Vdc	1.05Amps	50 W continuously

## Custom Solutions



12Vdc / 4.5A with a 7Amps charger



24 Hour backup solution with extended batteries



48Vdc / 7A with a 360W Battery charger

We will design a solution to match your requirement, should our standard range not fulfill your specifications.

Please refer to [www.rectifier.co.za](http://www.rectifier.co.za) for detailed specifications.