

Power Supplies

Rechargeable Batteries



02

Batteries



05

Battery Holders



07

Chargers and Testers



07

Alternative Sources of Energy



12

Adaptors and Voltage Converters



15

Power Supplies



19

Application chart - batteries & rechargeables

Anwendungstabelle - Batterien und Akkus



Technology <i>Technologie</i>	Batteries non rechargeable <i>Batterien nicht aufladbar</i>		Rechargeable Batteries <i>Akkus wiederaufladbar</i>		
	 Alkaline	 Lithium	 NiMH	 Ready to use	 Quick-flash
Toys <i>Spielzeuge</i> 	++	+	O	++	
Remote Controls <i>Fernbedienungen</i> 	+++	+	-	+	
MP3/MP4 Players <i>MP3/MP4 Player</i> 	++	++	O	+++	
Cameras <i>Kameras</i> 	+	++		++	+++
Camera Flashes <i>Kamera-blitze</i> 	+	++		++	+++
Cordless Phones <i>Funktelefone</i> 	-	-	++	++	
Torches <i>Taschenlampen</i> 	++	++	O	+	
Fire Detectors <i>Feuer-melder</i> 	++	+++	-	O	
Microphones <i>Mikrofone</i> 	++	++	+	++	
Wall Clocks <i>Wanduhren</i> 	++	+++	-	+	
Multimeter <i>Mess-geräte</i> 	+	++	O	++	
computer peripherals <i>Computer Peripherie</i> 	++	++	+	+++	

+++ Best performance
++ Recommended
+ Compatible
o Possible
- Not recommended

+++ Besonders geeignet
++ Empfohlene Anwendung
+ Anwendung uneingeschränkt möglich
o Anwendung möglich
- Anwendung nicht empfohlen

NiCd Rechargeable Batteries

Rechargeable Batteries with Soldering Lugs

40% higher capacitance as compared to standard batteries for the same dimensions

Good voltage consistency at high discharge currents

Quick charging in app. 1 h possible

Reversible safety valve

Can be installed in any position

The batteries are delivered with an undefined charging status. Minimum first charging period: 20...24 h

N1700SCR-1Z



N-3000CR



N-3000CR-1Z



NICD1800SC-1U



NICD1900SC-1Z



NICD 2400SC-1Z



Part No.	Voltage	Capacity	Manufact.	Dim.	Terminals
N 1700 SCR-1Z	1,2V	1700mAh	SANYO	SUB-C	Z
NICD1800SC-1U	1,2V	1800mAh	ECONOMIC	SUB-C	U
NICD1900SC-1Z	1,2V	1900mAh	ECONOMIC	SUB-C	Z
NICD 2400SC-1Z	1,2V	2400mAh	ECONOMIC	SUB-C	Z
N-3000CR	1,2V	3000mAh	SANYO	C	-
N-3000CR-1Z	1,2V	3000mAh	SANYO	C	Z
KR-5000DEL	1,2V	5000mAh	SANYO	D	-

Part No.	Ord.No.
S N 1700 SCR-1Z	53154
S NICD1800SC-1U	33485
S NICD1900SC-1Z	50746
S NICD 2400SC-1Z	70477
S N-3000CR	60089
S N-3000CR-1Z	60090
S KR-5000DEL	60088

NiCd Backup Batteries

AKKU 60-2,4



AKKU 60-3,6



AKKU 60-3,6S



Part No.	U[V]	C[mAh]	Outlets	RM[mm]	Diameter x height
AKKU 60-2,4	2,4	65	3 pins	10x13	16x12 mm
AKKU 60-3,6	3,6	65	3 pins	10x17,9	16x18 mm
AKKU 60-3,6S	3,6	65	2 pins	17,9	16x18 mm

Part No.	Ord.No.
S AKKU 60-2,4	52378
S AKKU 60-3,6	50986
S AKKU 60-3,6 S	47229

NiMH Rechargeable Batteries

- rechargeable with no cadmium and memory effect
- best performance based on the latest technology and quick-charging ability
- especially recommended for high-drain applications or frequently-used devices such as digital cameras, portable audio players, handheld games and toys
- last up to 4 x longer in digital cameras than standard batteries
- excellent price-performance ratio and long life-span

NEW!



tecvus™

Part No.	Voltage	Capacity	Part No.	Package
NIMH 600 AAA TECXUS BP2	1,2V	600mAh	AAA	Blister / 2pcs
NIMH 1100 AAA TECXUS BP2	1,2V	1900mAh	AAA	Blister / 2pcs
NIMH 1500 AA TECXUS BP2	1,2V	1500mAh	AA	Blister / 2pcs
NIMH 2700 AA TECXUS BP2	1,2V	2700mAh	AA	Blister / 2pcs
NIMH 4500 C TECXUS BP	1,2V	4500mAh	C	Blister / 1pc
NIMH 10000 D TECXUS BP	1,2V	10 000mAh	D	Blister / 1pc
NIMH 160-9V TECXUS BP	8,4V	160mAh	9V	Blister / 1pc
NIMH 280-9V TECXUS BP	8,4V	280mAh	9V	Blister / 1pc

Part No.	Ord.No.
O NIMH 600 AAA TECXUS BP2	47279
S NIMH 1100 AAA TECXUS BP2	72800
O NIMH 1500 AA TECXUS BP2	46375
S NIMH 2700 AA TECXUS BP2	72805
S NIMH 4500 C TECXUS BP	72792
S NIMH 10000 D TECXUS BP	72795
O NIMH 160-9V TECXUS BP	47278
S NIMH 280-9V TECXUS BP	72791



Part No.	Voltage	Capacity	Manufact.	Part No.	Package
HR-4U 1000 BP2	1,2V	1000mAh	SANYO	AAA	Blister/2pcs
HR-3U 2700 BP4	1,2V	2700mAh	SANYO	AA	Blister/4pcs
NIMH 170-8,4V	8,4V	170mAh	PANASONIC	9V	1pc

Part No.	Ord.No.
S HR-4U 1000 BP2	56598
S HR-3U 2700 BP4	56597
S NIMH 170-8,4V Panasonic	59660

NiMH Rechargeable "READY TO USE" / ENeloop Batteries

The new NiMH technology - the rechargeable battery is precharged and can be put to use immediately like a standard alkaline battery.

- self discharge is much lower than with standard NiMH batteries - after 6 month, the battery still retains 90% and after 12 months it still retains 80% of its charged capacity. That means more than 365 days of operational readiness!
- rechargeable up to 1000 times
- lasts up to 4 x longer in digital cameras than standard batteries
- quick-charge capable



Part No.	Voltage	Capacity	Part No.	Package
NIMH RTU 800 AAA TECVUS BP2	1,2V	800mAh	AAA	Blister / 2pcs
NIMH RTU 2100 AA TECVUS BP2	1,2V	2100mAh	AA	Blister / 2pcs
NIMH RTU 200-9VTECVUS BP	8,4V	200mAh	GLR61	Blister / 1pcs

Part No.	Ord.No.
S NIMH RTU 800 AAA TECVUS BP2	72807
S NIMH RTU 2100 AA TECVUS BP2	72808
S NIMH RTU 200-9VTECVUS BP	79906



Part No.	Voltage	Capacity	Part No.	Package
HR-4UTG 800	1,2V	800mAh	AAA	1pc
HR-4UTG 800 BP4	1,2V	800mAh	AAA	Blister / 4pcs
HR-3UTG 2000	1,2V	2000mAh	AA	1pc
HR-3UTG 2000 BP4	1,2V	2000mAh	AA	Blister / 4pcs

Part No.	Ord.No.
S HR-4UTG 800	74075
S HR-4UTG 800 BP4	60290
S HR-3UTG 2000	70887
S HR-3UTG 2000 BP4	60288

NiMH Battery Packs



Part No.	Voltage	Capacity	Part No.	Package
NIMH 950 AAA-1Z TECVUS SP4	1,2V	950mAh	AAA	1 unit/4pcs
NIMH 2500 AA-1Z TECVUS SP4	1,2V	2500mAh	AA	1 unit/4pcs
NIMH 4300 C-1Z TECVUS SP2	1,2V	4300mAh	C	1 unit/2pcs
NIMH 9000 D-1Z TECVUS SP2	1,2V	9000mAh	D	1 unit/2pcs

Part No.	Ord.No.
O NIMH 950 AAA-1Z TECVUS SP4	72799
S NIMH 2500 AA-1Z TECVUS SP4	72806
S NIMH 4300 C-1Z TECVUS SP2	47297
S NIMH 9000 D-1Z TECVUS SP2	47298

NiMH blocks for power supply of wireless phones, they are finished with soldering eyelets or MITSUMI connector.

AKKU 1100-3



AKKU 1100-4



AKKU PP 1



Part No.	Voltage	Capacity	Dimensions	Package
AKKU 1100-3	3,6V	1100mAh	42,4x50x14,4mm	1 unit/3pcs
AKKU 1100-4	4,8V	1100mAh	53x51x14,4mm	1 unit/4pcs
AKKU PP 1	7,2V	1100mAh	98x42x12mm TAMIYA connector	1 unit/3pcs

Part No.	Ord.No.
S AKKU 1100-3	70392
S AKKU 1100-4	70465
O AKKU PP 1	5015

NiMH Backup Batteries

NMH 60-2,4



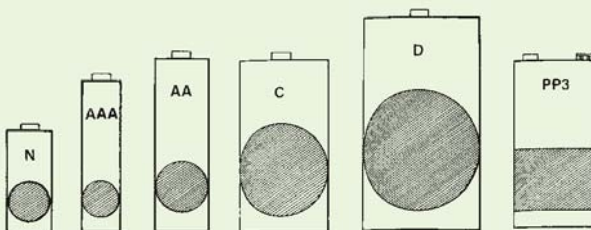
NMH 60-3,6



Part No.	Voltage	Capacity	Outlets	Diameter x height
NMH 60-2,4	2,4V	80mAh	3 pins	15,5x12 mm
NMH 60-3,6	3,6V	80mAh	3 pins	15,5x18 mm

Part No.	Ord.No.
S NMH 60-2,4	70474
S NMH 60-3,6	54631

Summary of Battery Sizes



Standard types

Type	ANSI	IEC	Diameter x height [mm]		
Lady	N	UM5	R1	12,0 x 30,2	
Micro	AAA	UM4	R03	10,5 x 44,5	
Mignon	AA	UM3	R6	14,5 x 50,5	
Baby	C	UM2	R14	26,2 x 50,0	
Mono	D	UM1	R20	34,2 x 61,5	
9V Block	PP3	-	6F22	(26,0x17,5) x 49,0	

Industrial Types

Type	ANSI	Diameter x height [mm]		
	AAAA	8,3x6,7		
Micro	2/3AAA, 5/4AAA, 5/3AAA	10,5x28,5	10,5x50	10,5x67
Mignon	1/3AA, 1/2AA, 2/3AA	14,5x17,5	14,5x23,7	14,5x28,2
	4/5AA, 4/3AA	14,5x43	14,5x65	
	A (AF), 2/3A (AF)	17x50	17x28,5	
	4/5A (AF), 7/5A (AF)	17x43	17x66	
Baby	SC, 1/2SC, 2/3SC	23x43	23x25,5	23x26,8
	4/5SC, 4/3SC	23x34	23x50	
Mono	1/2D, 3/2D(F), DD	33x36,5	33x90,5	33x111

Rechargeable Alkaline Batteries

Rechargeable Alkaline is the only rechargeable battery that can be used in any application that uses disposable alkaline batteries. It also offers several performance and cost saving advantages over other Rechargeable batteries. Features and benefits include:

- Rechargeable up to 500 times depending on the frequency of recharging
- They are purchased fully charged and have an industry best shelf-life of 7 years
- Like single-use alkaline batteries Rechargeable Alkaline is a much more powerful 1.5 volt battery compared to 1.2 volts for most other rechargeables
- Rechargeable Alkaline is the lowest cost Rechargeable by far
- Unlike several other Rechargeable batteries, Rechargeable Alkaline is free of toxic materials



Part No.	Voltage	Capacity	Part No.	Package	Manufact.
AccuCell AAA	1,5V	750mAh	AAA	Blister / 4pcs	AccuCell
PURE R03	1,5V	800mAh	AAA	Blister / 2pcs	PureEnergy
PURE R03XL (long life)	1,5V	800mAh	AAA	Blister / 4pcs	PureEnergy
PURE R6	1,5V	1600mAh	AA	Blister / 2pcs	PureEnergy
AccuCell AAA	1,5V	1800mAh	AA	Blister / 4pcs	AccuCell
PURE R6XL (long life)	1,5V	2000mAh	AA	Blister / 4pcs	PureEnergy
AccuCell C	1,5V	3000mAh	C	Blister / 2pcs	AccuCell
AccuCell D	1,5V	6000mAh	D	Blister / 2pcs	AccuCell

Part No.	Ord.No.
S PURE R03	5041
S PURE R03XL	50978
S PURE R6	5042
S PURE R6XL	50979
S AccuCell AAA	57501
S AccuCell AA	57502
S AccuCell C	57503
O AccuCell D	57504

Replacement Lead Acid Batteries

LCX Series



Part No.	Voltage	Capacity	Dimensions	Weight.
LCX 28-12	12V	28000mAh	165x125x175 mm	
LCX 42-12	12V	42000mAh	197x165x175 mm	
LCX 65-12	12V	65000mAh	350x166x175mm	

Part No.	Ord.No.
O LCX 28-12	43891
O LCX 42-12	47520
O LCX 65-12	59812

LCR Series

Panasonic®



Part No.	Voltage	Capacity	Dimensions	Weight
LCR 1,3-6	6V	1300mAh	97x24x50 mm	0,3kg
LCR 3,4-6	6V	3400mAh	134x34x60 mm	0,62kg
LCR 7,2-6	6V	7200mAh	150x34x100mm	1,26kg
LCR 12-6	6V	12000mAh	151x50x94 mm	1,95kg
LCR 1,3-12	12V	1300mAh	97x48 x50 mm	0,59kg
LCR 2,2-12	12V	2200mAh	177x 34x60mm	0,8kg
LCR 3,4-12	12V	3400mAh	134x 67x60mm	1,2kg
LCR 7,2-12	12V	7200mAh	151x 65x94 mm	2,5kg
LCR 12-12	12V	12000mAh	151x 102x94mm	3,9kg

Part No.	Ord.No.
O LCR 1,3-6	4362
S LCR 3,4-6	6518
S LCR 7,2-6	5119
S LCR 12-6	2586
S LCR 1,3-12	2882
S LCR 2,2-12	4149
S LCR 3,4-12	6532
S LCR 7,2-12	2612
S LCR 12-12	3806

FM Series

ECONOMIC



Part No.	Voltage	Capacity	Dimensions
FM 613	6V	1300mAh	98x25x55mm
FM 640	6V	4000mAh	70x48x105mm
FM 672	6V	7200mAh	150x34x100mm
FM 1213	12V	1300mAh	97x43x57mm
FM 1230	12V	3000mAh	135x35x92mm
FM 1234	12V	3400mAh	135x35x92mm
FM 1245	12V	4500mAh	105x70x91mm
FM 1270	12V	7000mAh	151x95x65mm

Part No.	Ord.No.
O FM 613	45985
S FM 640	45984
S FM 672	45983
S FM 1213	45982
S FM 1230	69570
S FM 1234	45981
S FM 1245	45980
S FM 1270	47993

NP Series

YUASA



Part No.	Voltage	Capacity	Dimensions
NP 08-12	12V	0.8Ah	96x25x61,5mm

Part No.	Ord.No.
S NP 0.8-12	5220

Alkaline Batteries



Part No.	Voltage	Part No.	Package
Alkaline LR03 TECXUS BP4	1,5V	AAA	Blister / 4pcs
Alkaline LR03 TECXUS BP8+2	1,5V	AAA	Blister / 8+2pcs
Alkaline LR6 TECXUS BP4	1,5V	AA	Blister / 4pcs
Alkaline LR6 TECXUS BP8+2	1,5V	AA	Blister / 8+2pcs
Alkaline LR14 TECXUS BP2	1,5V	C	Blister / 2pcs
Alkaline LR20 TECXUS BP2	1,5V	D	Blister / 2pcs
Alkaline 6LR61 TECXUS BP	9V	9V Block	Blister / 1pc

Part No.	Ord.No.
S Alkaline LR03 TECXUS BP4	72809
S Alkaline LR6 TECXUS BP4	72811
O Alkaline LR03 TECXUS BP8+2	72810
O Alkaline LR6 TECXUS BP8+2	72812
S Alkaline LR14 TECXUS BP2	72813
O Alkaline LR20 TECXUS BP2	72814
O Alkaline 6LR61 TECXUS BP	72815



Part No.	Voltage	Capacity	Dimensions	Package
LR 43 TECXUS BP	1,5V	100mAh	11,5x4,1mm	Blister / 1pc
LR 44 TECXUS BP	1,5V	145mAh	11,5x5,4mm	Blister / 1pc
LR 54 TECXUS BP	1,5V	75mAh	11,5x3,07mm	Blister / 1pc

Part No.	Ord.No.
S LR 43 TECXUS BP	72883
S LR 44 TECXUS BP	72884
S LR 54 TECXUS BP	72885

WE 11 A = L 1016 WE 23 A = L 1028



Part No.	Voltage	Capacity	Dimensions	Package
WE 11 A	6V	43mAh	10,3x16 mm	Blister / 1pc
WE 23 A	12V	45mAh	10,3x28,8mm	Blister / 1pc

Part No.	Ord.No.
O WE 11 A	8861
S WE 23 A	9194

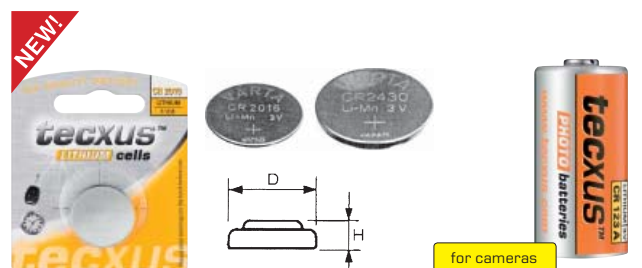
Lithium Batteries



Part No.	Voltage	Part No.	Description	Package
Lithium FR03 TECXUS BP2	1,5V	AAA	1100mAh/Li-FES2	Blister/2pcs
Lithium FR6 TECXUS BP2	1,5V	AAA	2900mAh/Li-FES2	Blister/2pcs
Lithium ER9V TECXUS BP	9V	AA	1200mAh/Li-SOCL2	Blister/1pc

Part No.	Ord.No.
O Lithium FR03 TECXUS BP2	72954
O Lithium FR6 TECXUS BP2	72955
O Lithium ER9V TECXUS BP	72953

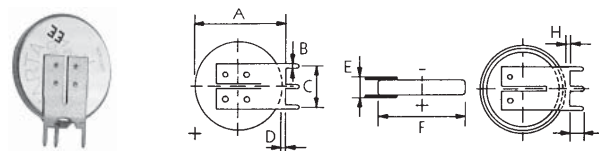
CR Series (3V)



Part No.	Voltage	Capacity	Dimensions	Manufacturer
CR 1220 TECXUS BP	3V	35mAh	2,5x2mm	TECXUS
CR 1225 TECXUS BP	3V	50mAh	12,5x2,5mm	TECXUS
CR 1616 TECXUS BP	3V	55mAh	16x1,6mm	TECXUS
CR 1620 TECXUS BP	3V	70mAh	16x2mm	TECXUS
CR 1632	3V	120mAh	16x3,2mm	NEW SUN
CR 2016 TECXUS BP	3V	75mAh	20x1,6mm	TECXUS
CR 2025 TECXUS BP	3V	150mAh	20x2,5mm	TECXUS
CR 2032 TECXUS BP	3V	210mAh	20x3,2mm	TECXUS
CR 2032 B	3V	220mAh	20x3,2mm	VARTA
CR 2330 New Sun	3V	250mAh	23x3mm	NEW SUN
CR 2330	3V	265mAh	23x3mm	PANASONIC
CR 2354 1-BL New Sun	3V	530mAh	23x5,4mm	NEW SUN
CR 2430 TECXUS BP	3V	270mAh	24x3mm	TECXUS
CR 2430 V	3V	280mAh	24,5x3mm	VARTA
CR 2450 TECXUS BP	3V	500mAh	24x5mm	TECXUS
CR 2450 B	3V	560mAh	24,7x5mm	VARTA
CR 123 A TECXUS	3V	1300mAh	34,5x17,1mm	TECXUS

Part No.	Ord.No.
S CR 1220 TECXUS BP	72941
S CR 1225 TECXUS BP	72942
S CR 1616 TECXUS BP	72943
S CR 1620 TECXUS BP	72944
S CR 1632	52179
S CR 2016 TECXUS BP	72945
S CR 2025 TECXUS BP	72946
S CR 2032 TECXUS BP	72949
S CR 2032 B	3358
S CR 2330 New Sun	71689
S CR 2330	3627
S CR 2354 1-BL New Sun	54640
S CR 2430 TECXUS BP	72950
S CR 2430 V	36048
S CR 2450 TECXUS BP	72951
S CR 2450 B	2100
S CR 123 A TECXUS	47593

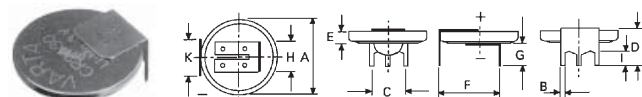
PCB mounted - vertical



Part No.	Voltage	Capacity	Dimensions
CR 2032 SLF	3V	230mAh	20x3,2 mm
CR 2430 SLF	3V	280mAh	26x4 mm

Part No.	Ord.No.
S CR 2032 SLF	3827
S CR 2430 SLF	5380

PCB mounted - horizontally



Part No.	Voltage	Capacity	Description	Dimensions
CR 2032 PCB	3V	230mAh	3-pin	20x3,2 mm
CR 2450 PCB	3V	560mAh	2-pin	25x5 mm

Part No.	Ord.No.
S CR 2032 PCB	29757
S CR 2450 PCB	6597

LS Series



Part No.	Voltage	Capacity	Part No.	Description
LS 14500 CNA	3,6V	2250mAh	AA	axial outlets
CR 2450 PCB	3V	560mAh	2-pin	25x5 mm

Part No.	Ord.No.
S LS 14500 CNA	33494
S CR 2450 PCB	6597

Cross Reference Table XENO

Size	Terminal	Dimensions	XENO	SAFT	SONNENSCHIN			
1/2AA		14,5x25,2mm	XENO XL-050F	1,2Ah	LS 14250	1,1Ah	SL-350/S	1,2Ah
1/2AA	axial	14,5x25,2mm	XENO XL-050F AX	1,2Ah	LS 14250 CNA	1,1Ah	SL-350/P	1,2Ah
1/2AA	terminal leads	14,5x25,2mm	XENO XL-050F T1	1,2Ah	LS 14250 CNR	1,1Ah	SL-350/T	1,2Ah
1/2AA	3 pins into PCB	14,5x25,2mm	XENO XL-050F T3	1,2Ah	LS 14250 3PF	1,1Ah	SL-350/PT	1,2Ah
2/3AA		14,5x33,5mm	XENO XL-055F	1,65Ah			SL-361/S	1,6Ah
2/3AA	axial	14,5x33,5mm	XENO XL-055F AX	1,65Ah			SL-361/P	1,6Ah
2/3AA	terminal leads	14,5x33,5mm	XENO XL-055F T1	1,65Ah			SL-361/T	1,6Ah
2/3AA	3 pins into PCB	14,5x33,5mm	XENO XL-055F T3	1,65Ah			SL-361/PT	1,6Ah
AA		14,5x55,5mm	XENO XL-060F	2,4Ah	LS 14500	2,45Ah	SL-360/S	2,4Ah
AA	axial	14,5x55,5mm	XENO XL-060F AX	2,4Ah	LS 14500 CNA	2,45Ah	SL-360/P	2,4Ah
AA	terminal leads	14,5x55,5mm	XENO XL-060F T1	2,4Ah	LS 14500 CNR	2,45Ah	SL-360/T	2,4Ah
AA	3 pins into PCB	14,5x55,5mm	XENO XL-060F T3	2,4Ah	LS 14500 3PF	2,45Ah	SL-360/PT	2,4Ah
C		26,2x50mm	XENO XL-140F	7,2Ah	LSH 14	5,5Ah	SL-770/S	7,2Ah
C	terminal leads	26,2x50mm	XENO XL-140F T1	7,2Ah	LSH 14 CNR	5,5Ah	SL-770/T	7,2Ah
C		26,2x50mm	XENO XL-145F	8,5Ah	LS 26500	7,7Ah	SL-2770/S	8,5Ah
C	terminal leads	26,2x50mm	XENO XL-145F T1	8,5Ah	LS 26500 CNR	7,7Ah	SL-2770/T	8,5Ah
D		33,6x60mm	XENO XL-200F	16,5Ah	LSH 20	13Ah	SL-780/S	16,5Ah
					LS 33600	17Ah		
D	terminal leads	33,6x60mm	XENO XL-200F T1	16,5Ah	LSH 20 CNR	13Ah	SL-780/T	16,5Ah
					LS 33600 CNR	17Ah		
D		33,6x60mm	XENO XL-205F	19Ah	LS 33600 C	18,5Ah	SL-2780/S	19Ah
D	terminal leads	33,6x60mm	XENO XL-205F T1	19Ah	LS 33600 C CNR	18,5Ah	SL-2780/T	19Ah

XENO Series- 3,6V



General characteristics of XENO batteries:
 High Steady Operating Voltage:
 Nominal Voltage: 3.6V
 Operating Voltage: 3.4V
 Improved Transient Minimum Voltage Effect
 Very Low Self-Discharge Rate (Self-discharge
 1 up to 2% per year at room temperature)
 Superior Storage Capability (10 Years)
 Pulse Current up to Medium Current
 Highest Reliability and Safety
 Operating temperature range: -55°C up to +85°C

WITH PINS INTO PCB

Part No.	Ord.No.	Description
S XL-050F T3	49193	1/2AA, 3,6V/1200 mAh
O XL-055F T3	49196	2/3AA, 3,6V/1650 mAh
O XL-060F T3	49200	AA, 3,6V/2400 mAh

WITH AXIAL TERMINALS

Part No.	Ord.No.	Description
S XL-050F AX	49191	1/2AA, 3,6V/1200 mAh
S XL-055F AX	49195	2/3AA, 3,6V/1650 mAh
S XL-060F AX	49198	AA, 3,6V/2400 mAh

WITH TERMINAL LEADS

Part No.	Ord.No.	Description
S XL-050F T1	49192	1/2AA, 3,6V/1200 mAh
O XL-055F T1	48811	2/3AA, 3,6V/1650 mAh
S XL-060F T1	49199	AA, 3,6V/2400 mAh
S XL-140F T1	49202	C, 3,6V/7200 mAh
O XL-145F T1	49204	C, 3,6V/8500 mAh
O XL-200F T1	49206	D, 3,6V/16500 mAh
O XL-205F T1	49209	D, 3,6V/19000 mAh

STANDARD

Part No.	Ord.No.	Description
S XL-050F	48983	1/2AA, 3,6V/1200 mAh
O XL-055F	49194	2/3AA, 3,6V/1650 mAh
S XL-060F	49197	AA, 3,6V/2400 mAh
S XL-140F	49201	C, 3,6V/7200 mAh
S XL-145F	49203	C, 3,6V/8500 mAh
S XL-200F	49205	D, 3,6V/16500 mAh
S XL-205F	49208	D, 3,6V/19000 mAh

Battery Holders

Battery Holders for AAA Batteries

1xUM4L

2xUM4L

4 X UM 4 R



Part No.	Ord.No.	No. of Cells	Terminal Part No.
S 1 X UM 4 L	8149	1xAAA	Soldering Lugs
S 2 X UM 4 L	8150	2xAAA	Soldering Lugs
S 4 X UM 4 R	56859	3xAAA	Wire 152mm

Battery Holders for Mignon (AA) Batteries

BCL108

1xUM3

1xUM3L

1xUM3K



Part No.	Ord.No.	No. of Cells	Terminal Part No.
S BCL 108	55757	1/2xAA	Soldering Lugs
S 1 X UM 3	16732	1xAA	9V clip
S 1 X UM 3 L	28196	1xAA	Soldering Lugs
S 1 X UM 3 K	7942	1xAA	Wire 152mm

2xUM3

2xUM3R

2xUM3P

3xUM3B



Part No.	Ord.No.	No. of Cells	Terminal Part No.
S 2 X UM 3	16734	2xAA	9V Clip
S 2 X UM 3 R	28197	2xAA	9V Clip
S 2 X UM 3 P	55006	2xAA	PCB pins
S 3 X UM 3 B	52102	3xAA	9V Clip

4xUM3Q

4xUM3F

4xUM3L



Part No.	Ord.No.	No. of Cells	Terminal Part No.
S 4 X UM 3 Q	16736	4xAA	9V Clip
S 4 X UM 3 F	28198	4xAA	9V Clip
S 4 X UM 3 L	16735	4xAA (2+2)	9V Clip

6xUM3Q

8xUM3Q

10xUM3Q



Part No.	Ord.No.	No. of Cells	Terminal Part No.
S 6 X UM 3 Q	16737	6xAA (3+3)	9V Clip
S 8 X UM 3 Q	16738	8xAA (4+4)	9V Clip
S 10 X UM 3 Q	16739	10xAA(5+5)	9V Clip

Battery Holders for Baby (C) Batteries

1xUM2

2xUM2

4xUM2Q



Part No.	Ord.No.	No. of Cells	Terminal Part No.
S 1 X UM 2	16728	1xC	9V Clip
S 2 X UM 2	16729	2xC	9V Clip
S 4 X UM 2 Q	16731	4xC	9V Clip

Battery Holders for Mono (D) Batteries

1xUM1

2xUM1

4xUM1



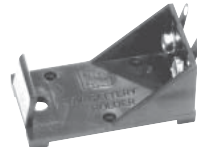
Part No.	Ord.No.	No. of Cells	Terminal Part No.
S 1 X UM 1	16726	1xD	9V Clip
S 2 X UM 1	28195	2xD	9V Clip
S 4 X UM 1	16727	4xD	9V Clip

9V Block Battery Holders

SN 9V 1

9 V I

9 V T



Part No.	Ord.No.	Terminal Part No.
S SN9V1	7945	Soldering Lugs
S 9 V I	16724	9V Clip with Wire 150cm
S 9 V T	16725	9V Clip with Wire 150cm

Button Cells Battery Holders

BH500

KEYSTONE



SN 2032



SN 2430



Part No.	Ord.No.	Description
S BH 500	2283	CR 1216, 1220, 1225(12mm)
S SN 2032	2643	CR 2032 (20mm) RM20
S SN 2430	3639	CR 2430 (24,5mm) RM20

Battery Clips

KEYSTONE

BCL82PC



BCL92PC



BCL595PC



BCL628PC



Part No.	Ord.No.	Description	1+	10+	25+
S BCL 82 PC	5687	AAA/N			
S BCL 92 PC	10747	AAA/AA			
S BCL 595 PC	7943	AAA/AA +pole			
S BCL 628 PC	7944	AAA/AA - pole			

BCL204
BCL209

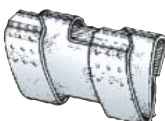


BCL228



Part No.	Ord.No.	Description
O BCL 204	55732	AAAA/AAA/N/12V - pole
S BCL 209	49106	AAA/AA - pole
S BCL 228	55734	AAAA/AAA/N/12V + pole

BCL210



BCL238



BCL290



Part No.	Ord.No.	Description
O BCL 210	49107	2xAAA/AA - pole
O BCL 238	55737	2xAAA/AA + pole
O BCL 290	55738	2xAAA/AA +/- pole



Chargers

Battery Chargers with DV Detection



Chargers with ΔV detection could effectively prevent overcharge of batteries by switching the charge cycle from fast mode to trickle mode when the charger detected the abrupt change of voltage and other parameters. Since the chargers with ΔV detection usually have a well-designed protection circuit, the Charging Current of this kind of chargers is around 0,25C-1C (C=battery's capacity). REFRESH feature allows to regenerate battery's capacity, which is reduced due to memory effect. Plug-in versions have European fork directly on the charger, desktop versions are equipped with a solid flex.



MW 8168 GS

Intercept 5 Hours Battery Charger w/ DV Control, Discharge Function & 1500mAh batteries
2/4 switch
For AA & AAA Ni-Cd/Ni-MH batteries
Plug-in

ΔV

Technical Parameters	MW 8168 GS
Input Voltage	230 VAC
Battery Type	NiCd/NiMH
Battery Size	AAA, AA
Charging Current - fast charge	500mA (AA), 300mA (AAA)
Charging Current - trickle charge	50mA (AA), 30mA (AAA)
Discharge function	yes
Input Method	plug-in
Dimension	119x71x83mm

Part No.	Ord.No.
S MW 8168 GS	52015



MW 1268

Intercept-Rapid Battery Charger w/ DV control, USB input, discharge & memory refresh function
2/4 switch
For AA & AAA Ni-Cd/Ni-MH batteries

Accessories:
car adaptor MWCP1
AC/DC adaptor MW1205GS

ΔV

USB

Technical Parameters	MW 1268
Input Voltage	AC 100-230V, DC 12-13.8V, 5V(USB)
Battery Type	NiCd/NiMH
Battery Size	AAA, AA
Charging Current - fast charge	800mA (AA), 300mA (AAA)
Charging Current - trickle charge	80mA (AA), 30mA (AAA)
Discharge function	yes
Input Method	AC & DC Input
Dimension	119x71x83mm

Part No.	Ord.No.
S MW 1268	49291



MW L 2111(1)

Aluminum battery charger LCD with backlight
4 channels

Accessories:
car adaptor MWCP1
AC/DC adaptor MW1205GS

ΔV

LCD

Technical Parameters	MW L2111(1)
Input Voltage	AC 230V
Battery Type	Ni-Cd/Ni-MH
Battery Size	AAA, AA
Charging Current - fast charge	800mA (AA), 300mA (AAA)
Charging Current - trickle charge	80mA (AA), 30mA (AAA)
Discharge function	no
Input Method	Desktop
Dimension	124.5 x 72 x 30mm

Part No.	Ord.No.
S MW L 2111(1)	70393



ΔV

MW 3279
CamPlus-Intercept 30mins
Super fast battery charger with 4
Channels DV control
DV detection
4 channels
For AA, AAA Ni-Cd/Ni-MH batteries
Accessories:
car adaptor MWCP1
switching adaptor MW 7M25GS



Technical Parameters	MW 3279
Input Voltage	AC 100-230V , DC 12-13.8V
Battery Type	Ni-Cd/Ni-MH
Battery Size	AAA, AA
Charging Current - fast charge	3000mA (AA), 1200mA (AAA)
Charging Current - trickle charge	300mA (AA), 120mA (AAA)
Discharge function	no
Input Method	Cigarette Lighter Plug for car
Dimension	128x82x50mm

Part No.	Ord.No.
S MW 3279	70395



ΔV

LCD

MW 6278
Universal Ni-Cd/Ni-MH Bat-
tery Charger with LCD Display, 4
Channels DV Control and Discharge
4 channels
Desktop
For 1-4 pcs AA, AAA, C, D or 1-2
pcs 9V Ni-Cd/Ni-MH batteries
Accessories:
car adaptor MWCP1
switching adaptor MW 7E12



Technical Parameters	MW 6278
Input Voltage	AC 100-240V
Battery Type	Ni-Cd/Ni-MH
Battery Size	AAA, AA, C, D, 9V
Charging Current - fast charge	1000mA (AA,C,D), 500mA(AAA),13mA PP3 (9V)
Charging Current - trickle charge	100mA (AA,C,D), 50mA (AAA)
Discharge function	yes
Input Method	Desktop, Others
Dimension	190x128.5x61mm

Part No.	Ord.No.
S MW 6278	70397



ΔV

MW 6288 GS
Plug-in 9V Battery Charger w/
DV and Discharge Function
DV detection
Discharge function
2 channels
For 9V Ni-Cd/Ni-MH batteries
Plug-in



Technical Parameters	MW 6288 GS
Input Voltage	AC 230V
Battery Type	Ni-Cd/Ni-MH
Battery Size	Block 9V
Charging Current - fast charge	70mA
Charging Current - trickle charge	7mA
Discharge function	no
Input Method	Plug-In
Dimension	98x64x91.75mm

Part No.	Ord.No.
S MW 6278	70396

USB Battery Chargers



USB

MW U112
USB Charger
Portable
Extendable
For 1 or 2pcs Ni-Cd/Ni-MH
batteries
Accessories:
car adaptor MWCP1
switching adaptor MW 7M25GS



Technical Parameters	MW U112
Input Voltage	5V
Battery Type	Ni-Cd/Ni-MH
Battery Size	AA/AAA
Charging Current	200 mA
Discharge function	no
Input Method	Plug-In
Dimension	20 x 17 x 87.6mm

Part No.	Ord.No.
S MW U112	70398

Alkaline Battery Chargers

Special chargers for Rechargeable Alkaline Manganese batteries (RAM).
Warranty for RAM batteries is relevant to the use with these chargers.



μController

AccuCell
ACL62
Rapid charger for 1-4 al-
kaline AA/AAA RAM (rechargeable alkaline-
manganese) batteries. A microcontroller
monitors each bay separately to ensure
that each cell is charged effectively, and
protected against overcharging and reverse
polarity. After charging it changes over au-
tomatically to trickle charge.

Technical Parameters	ACL62
Input Voltage	230V
Battery Type	RAM
Battery Size	AAA/AA
No. of Batteries	1-4
Max. charging current per bay:	400mA
Typ. charging time for 2000 mAh AA bat.	320min.
Processor	yes
Dimension (WxHxD)	83 x 125 x 75 mm

Part No.	Ord.No.
S ACL62	57505



μController

AccuCell
ACL64
Universal rapid charger
for 1-4 RAM (Rechargeable Alkaline Mangan-
ese) batteries: AA, AAA, C or D. A micro-
controller monitors each bay separately to
ensure that each cell is charged effectively,
and protected against overcharging and re-
verse polarity. After charging it changes over
automatically to trickle charge.

Technical Parameters	ACL64
Input Voltage	230V
Battery Type	RAM
Battery Size	AAA/AA/C/D
No. of Batteries	1-4
Max. charging current per bay:	500mA
Typ. charging time for 2000 mAh AA bat.	250min.
Processor	yes
Dimension (WxHxD)	105 x 205 x 60 mm

Part No.	Ord.No.
O ACL64	57506



RAM, NiCd, NiMH

ACCUMANAGER10 **AccuCell**
AC/DC battery charger will charge 1-4 AA or AAA rechargeable batteries, NiMH, NiCd or rechargeable alkaline batteries. Any combination of battery sizes and types can be charged simultaneously. Microcontrolled charger recognizes the battery type and charges accordingly. LED lights indicate "charging" and "ready". Charges using 120V AC household power or 12V DC, vehicle or solar panel.

Technical Parameters	ACL64
Input Voltage	230VAC/12VDC
Battery Type	NiCd, NiMH, RAM
Battery Size	AAA/AA
No. of Batteries	1-4
Max. charging current per bay:	600mA
Typ. charging time for 2000 mAh AA bat.	from 20min to 12h
Dimension (WxHxD)	145 x 90 x 50 mm

Part No.	Ord.No.
S AccuManager10	62341



RAM, NiCd, NiMH

ACCUMANAGER20 **AccuCell**
AccuManager 20 charger will recharge your NiMH or NiCad batteries faster, and better, than any other charger we've ever seen. You can mix different battery types, sizes and charging times. After charging, each cell is stored at the peak of readiness with a gentle trickle charge until you're ready for it. There are four bays that accept AAA, AA, C or D cells, plus two bays that accept 9-volt cells. Charge times will run from 20 minutes to 12 hours depending on type and size. Supplied with both AC and DC charging cords and will run off standard 120V AC, automotive 12 volts, or a 10- to 15-watt solar panel with appropriate plug.

Technical Parameters	ACL64
Input Voltage	230VAC/12VDC
Battery Type	NiCd, NiMH, RAM
Battery Size	AAA/AA/C/D/9V Block
No. of Batteries	1-6
Max. charging current per bay:	600mA, 30mA(9V)
Typ. charging time	from 20min to 12h
Dimension (WxHxD)	165x190x63,5mm

Part No.	Ord.No.
S AccuManager20	57507



RAM

ACP68, ACP69 **AccuCell**

Technical Parameters	ACP68, ACP69
Input Voltage	110 - 240 V/
Battery Type	RAM
Battery Size	AAA/AA
No. of Batteries	2
Max. charging current per bay:	190 mA (AAA), 120mA (AA)
Typ. charging time for 2000 mAh AA bat.	840 min
Processor	yes
Dimension (WxHxD)	45 x 110 x 68 mm

Part No.	Ord.No.	Description
S ACP68	62477	incl. 2xAAA batteries
S ACP69	62478	incl. 2xAA batteries



RAM, NiCd, NiMH

XL SMART CHARGER **PURE ENERGY**

Automatic identification of the battery type by the microprocessor. Able to charge all types of rechargeable batteries. Capable of charging different battery types and sizes at the same time. Comes with 8 Rechargeable Alkaline batteries.

Technical Parameters	ENVIRO
Input Voltage	230VAC
Battery Type	NiCd, NiMH, RAM
Battery Size	AAA/AA
No. of Batteries	1-4
Max. charging current	350mA
Typ. charging time	from 2h to 6h

Part No.	Ord.No.
S XL SMART CHARGER	57453



ENVIRO **PURE ENERGY**
4 Cell Envirocharger
Charges both AA and AAA batteries

Technical Parameters	ENVIRO
Input Voltage	230VAC
Battery Type	RAM
Battery Size	AAA/AA
No. of Batteries	1-4
Max. charging current	500mA

Part No.	Ord.No.
S ENVIRO	5043

Li-Ion Battery Chargers



PIXO C1
This clever designed charger allows to charge Li-on batteries from almost any photo camera or camcorder. Just adjust two pins and insert the battery. The polarity is automatically detected and the battery is charged with all necessary safety protections. This seems to be a great alternative to the Canon charger, especially if you also have to charge Li-ion batteries from other devices.

Technical Parameters	ENVIRO
Input Voltage	12-13,8 VDC, 110-230VAC
Battery Type	Li-Ion 3,7-7,2
Dimensions	110x65x25mm

Part No.	Ord.No.
S PIXO C1	64009

Lead Acid Battery Chargers



ALCS2-24

This is an Automatic Charger for lead acid batteries of between 2 and 24 v and between 2 and 24Ah (Automatically adjustable). It offers protection from overcharging and reverse-connection. It is also short-circuit proof.

Automatic switchover to the respective battery voltage.

Red LED indicates charging ,turns off when fully charged.

Green LED indicates the voltage.

This is a simple taper charger suitable for float application where the load can be left connected during charge.

Technical Parameters	ALCS2-24
Input Voltage	230VAC
Battery Type	Lead Acid
Nom. Voltage/Charging Current	2V/900mA
	6V/700mA
	12V/600mA
	24V/300mA
Dimension	68x106x51 mm

Part No.	Ord.No.
S ALCS2-24	6731



MW 126C08 GS

6/12V 800mA Plug-In Lead Acid Battery Charger
800mA

Reverse polarity protection
For 6V or 12V lead acid battery
Desktop



Technical Parameters	MW 126C08 GS
Input Voltage	230V AC
Output Voltage	DC 6V/12V
Battery Type	6/12V Lead Acid Battery
Charging Current	800 mA
Input method	Plug-In
Dimension	98x68x93mm

Part No.	Ord.No.
S MW 126C08 GS	49295



MW 126C18 GS

6/12V 1800mA Desktop Lead Acid Battery Charger
1800mA

Reverse polarity protection
For 6V or 12V lead acid battery
Desktop



Technical Parameters	MW 126C18 GS
Input Voltage	230V AC
Output Voltage	DC 6V/12V
Battery Type	6/12V Lead Acid Battery
Charging Current	1800 mA
Input method	Plug-In
Dimension	135x86x75mm

Part No.	Ord.No.
S MW 126C18 GS	49296

Accumulator and Battery Testers



BT 108

Checks AA, AAA, C, D, 9V types of regular or rechargeable batteries and button cells
Internal battery not required
Compact size and light weight

Part No.	Ord.No.
S BT 108 (BT 1)	3787



BT ENERGY CHECK LCD

The Ansmann Energy Check LCD is ideal for the professional user needing to know the levels of their batteries. It is easy to use, very easy to read with the large LCD display and covers a huge range of batteries, from little button cells, through Alkaline, rechargeable batteries, specialist Photo Lithium batteries like the CR-V3 and CR123A.

Reliable professional battery tester for all common types of batteries including:

Alkaline - Lithium Photo - Lithium Button - Zinc-Air - NiCD & NiMH batteries.

Ultra Fast Testing - Easy to Handle - Battery Voltage Displayed - Capacity measurement in 10% steps

Test Time: Approximately 2 Seconds

Voltage Display: 2 Decimal Places

Part No.	Ord.No.
O BT ENERGY CHECK LCD 70684	



MW 322

Small battery tester
For AA or AAA Batteries

Put Batteries into the slots, then the LED will indicate the battery conditions.

Dimension 80x38x15mm



Part No.	Ord.No.
S MW 322	64309



MW 333

Multifunction tester with LCD display to control more than 12 different types of batteries and accumulators, such as: AAA, AA, C, D, 9V, CR123A, CR2, CR-V3, 2CR5, CR-P2, button batteries and the other types with the same voltage. When testing the LCD display shows the remaining battery capacity.

Dimension: 118x88x23 mm



Part No.	Ord.No.
S MW 333	55545

○ 12

Solar Sets

Solar set 12V/32W
Solar set 12V/65W



Solar set with Kyocera solar panel, regulator and battery



Part No.	Ord.No.	
S SOLAR SET 12V/32W	63260	12V, 32Wp, 0,27m ² , 42Ah
S SOLAR SET 12V/65W	71545	12V, 65Wp, 0,49m ² , 38Ah

S4.500 set

NEW!

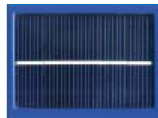


The S4 is a completely sealed and maintenance free 12VDC electricity storage system that can be charged directly from any size solar panel ranging from 10 up to 120 Wp or from other power source like the Sunday DC10. The unit is equipped with a unique electronic battery state of charge display (LCD) and a buzzer to warn user when battery is running low. It is completely Plug and Play and comes with a standard cable set that can be plugged into the S4.

Part No.	Ord.No.	
O S4.500 set	71591	12V, 500Wh, 10A

Solar Chargers

BACHA-4S



Solar Battery Charger
For 1-4 pcs AA Ni-Cd/Ni-MH batteries
Voltage: 1,5 V
No-load voltage: 2,6 V
Working voltage: 1,7 V
Current: 150 mA
Dimensions: 82x60x18 mm

Part No.	Ord.No.	
S BACHA4-S	46583	

Wind Turbines

Air Breeze

NEW!



The new microprocessor based speed control results in increased performance, improved battery charging capability and the reduction of "flutter" noise from the machine. The controller allows for peak-power tracking of the wind by optimizing the alternator's output on all points of the cubic curve and then efficiently delivers the energy to the battery. The turbine's smart controller allows it to actually control blade rotation speed thus eliminating the buzzing noise. Furthermore, a new series of carbon-reinforced blades with a modified pitch angle further increases power production.

Technical Parameters	AIR BREEZE
Rotor Diameter	46 in (1.17 m)
Weight	13 lb (5.9 kg)
Mount	1.5 in schedule 40 1.9 in (48 mm) OD pipe
Start-up wind speed	6 mph (2.68 m/s)
Voltage	12/24VDC
Rated power	200 watts at 28 mph (12.5 m/s)
Monthly Energy Production	38 kWh/mo at 12 mph (5.4 m/s)
Part No.	Ord.No.
S Air Breeze Land Wind Generator 12V	73941
O Air Breeze Land Wind Generator 24V	73995

Solar Charge Regulators

CML 05



Charge Regulator with Nightlight Function
Two nightlight modes with one programmable timer

- Battery State-of-Charge and charge status display
- Load disconnect indication
- Load short circuit and overload indication
- Acoustic load disconnect pre-warning
- PWM regulation (series type)
- Integrated temperature compensation
- Three-state charging method
- SOC and voltage controlled LVD
- Automation 12 / 24 Volt detection
- Solid-state circuit and load protection
- Reverse polarity protection
- Fully electronically protected
- Large terminals (up to 16 mm²)
- Holder for DIN rail mounting available

Nominal voltage: 12/24V
Output Voltage with load: 12,8/25,6V
Max. charging voltage: 14,5/29V
Max. input current: 5A
Max. Output Current: 5A
Dimensions: 80x100x32mm

Part No.	Ord.No.
S CML 05	61317

CX 10



Solar Charge Regulator with LC Display

- Battery State-of-Charge display LCD
- Charge and discharge status display
- Acoustic load disconnect pre-warning
- Load status indication
- Choose between 3 load disconnect algorithms boost/absorption/float PWM-regulation (series type)
- Prepared for DIN rail mounting
- Automatic 12 / 24 Volt detection
- Integrated temperature compensation
- Covered terminals (up to 16mm² wire size)
- Full solid-state protection

Nominal voltage: 12/24V
Output Voltage with load: 12,8/25,6V
Max. charging voltage: 14,5/29V
Max. input current: 10A, 20A, 40A
Max. Output Current: 10A, 20A, 40A
Dimensions: 80x100x32mm

Part No.	Ord.No.	Description
S CX 10	61318	Output Current 10A
O CX 20	72352	Output Current 20A
O CX 40	72353	Output Current 40A
O CX USB	71834	Software + cable

APPLE 20

NEW!



The unique small PV charger/discharger, specially designed for very low cost applications based on SMD technology. The Apple is extremely power efficient due to its very low voltage drop over both input and output switching Mosfets, and a buzzer to indicate that user is close to LVD (Low Voltage Disconnect). The Apple also has an electronic master-switch or On/Off-switch, and a clear state of charge indicator that also gives you a good indication during charging.

Frequent cycling of the battery at a very low state of charge causes fast deterioration of the battery due to sulfation and stratification. The Apple does not allow the user to frequently operate the battery at low state of charge.

Nominal Voltage: 12/24V
Output Voltage with Load: 12,8/25,6V
Max. Charging Voltage: 14,5/29V
Max. Input Current: 10A, 20A, 40A
Max. Output Current: 10A, 20A, 40A
Dimensions: 80x100x32mm

Part No.	Ord.No.
S APPLE 20	74112

DC 10

NEW!



The DC10 can be used in combination with S3/S4 and almost any 220 VAC power source to form a powerful continuous power supply (CPS) system. It provides a stable 12VDC output, straight to the application, or to the S3/S4. The unit is capable of handling a maximum load of 10A. In areas with bad electricity grid a CPS provides the comfort and security of never failing lamps and applications.

Part No.	Ord.No.
S DC10	71609

12 VDC Energy Saving Lamps

Ulite 360 Cool Daylight

NEW!



The Ulite is a 12VDC instant start Off-Grid Compact Fluorescent Lamp with E17 Fitting. The Lamp has a lifetime of over 5.000 On/Off cycles and over 8.000 burning hours. The Ulite is available in 3 capacities from 3 up to 9 Watts.
E17 to E27 Adaptor - Ord.No 71605

Part No.	Ord.No.	Description
S Ulite 360 Cool Daylight	71594	12V DC 9W 360lm 30kJ/h

Qlite 1000 Cool Daylight

NEW!



The Qlite (former Ulux) is a 12VDC pre-heat start Off-Grid Compact Fluorescent Lamp with E17 Fitting and replaceable tube. The Lamp has an extremely long lifetime of over 100.000 On/Off cycles and over 10.000 burning hours. The Qlite is available in 5 capacities from 3 up to 18 Watts.
E17 to E27 Adaptor - Ord.No 71605

Qlite 1000 Spare Tube.

NEW!



Part No.	Ord.No.	Description
S Qlite 1000 Cool Daylight	71595	12VDC, 18W, 1000lm 60kJ/h
O Qlite 1000 Spare Tube	72416	

A-light 360 RS

NEW!



The A-Light is the best price performance ratio lamp in the industry. The A-light uses a Philips 10W fluorescent tube and is equipped with the highest grade electronic components to ensure a long lifetime. The uniquely shaped UV-stabilized reflector takes care of a good diffusion of the light. The A-light displayed here produces 360 Lumens at 10W power consumption.

Part No.	Ord.No.	Description
O A-light 360 RS	71593	12V DC 10W 360lm 36kJ/h

Multilight2 450

NEW!



The Multilight 2 is a sturdy lamparmature with an extremely durable melamine lamp shade. The Multilight 2 has a preheat start inverter and is equipped with a replaceable Ulux tube. The lamp has a lifetime of over 100.000 On/Off cycles and over 10.000 burning hours.

Part No.	Ord.No.	Description
S Multilight2 450	71596	12V DC 9W 450lm 30kJ/h

Luna 60 White

NEW!



The Luna is a White LED lamp with a power consumption of only 0,25 to 1 Watt; The Luna is very suitable as a reading lamp when combined with the Tablo and Pointer. Including the Sundaya E17 fitting.

Part No.	Ord.No.	Description
O Luna 60 White	71598	LED 1W 12V/E17 biela 60lm 4kJ/h

Accessories

DCS Cable

NEW!



DCS cables have a unique shape to differentiate the Positive and Negative wire. The DCS cable in combination with all Sundaya electrical accessories will ensure a highly reliable installation in shortest possible time.

Rule : Current(A) x Length(m) should not exceed 50(Am). Sundaya supplies the cable in standard lengths of 10, 15, 30, 50 or 100m.

Part No.	Ord.No.	Description
O DCS Cable 15Amx10m with D&C Plugs	71601	15A, 10m
O DCS Cable 50Amx10m with D&C Plugs	71848	50A, 10m

DCS cable 50Am

NEW!



DCS Cable with Plugs

Unique shape to differentiate the Positive and Negative wire. The DCS cable in combination with all Sundaya electrical accessories will ensure a highly reliable installation in shortest possible time.

Rule : Current(A) x Length(m) should not exceed 50(Am). Standard lengths of 10, 15, 30, 50 or 100 m. The following cables include also a connected D- and C-Plug and are used as extension cables.

Part No.	Ord.No.	Description
O DCS cable 50Am	71604	50Am x 5 m, F2 and M2 Plug

D-Plug

NEW!



The D-Plug is the male part of the 12 V DC shock-proof plug system. It's design is comparable to a 230 VAC shock-proof plug, but in difference to the 230 V version it has got plugging poles with a square profile instead of round. And the poles are arranged in different directions ? because of that a wrong polarisation is impossible. Designed for currents up to 10 Amperes.

Part No.	Ord.No.
O D-Plug	71606

T-Con

NEW!



The T-Con is connecting device that can be used to make a T or a cross connection to create either 1 or 2 branches from the main distribution cable. It also prevents the possibility of a reverse polarity connection and the installation is very simple.

Part No.	Ord.No.
O T-Con	71603

Apollo

NEW!



The Apollo is the E17 fitting Lamp base with extremely rigid terminals to ensure good electrical conductivity which is very important in low voltage DC installations.

Part No.	Ord.No.
O Apollo	71600

E27 to E17 adapter

NEW!

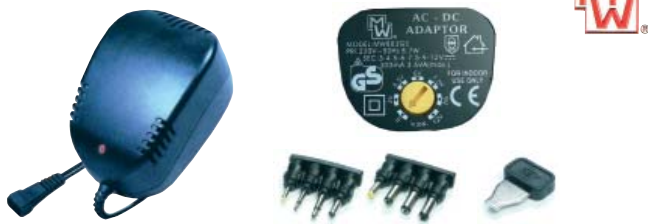


Allows to put the Sundaya ESL Lighting Units into an european standard socket. E27 Medium can be "made" to an E17 Intermediate adapter.

Part No.	Ord.No.
S E27 to E17 adapter	71605

Linear Non-Regulated Adaptors

MW 883 GS, MW 895 GS, MW 9210 GS



Technical Parameters	MW 883 GS	MW 895 GS	MW 9210 GS
Input Voltage	230 VAC		
Output Voltage	3/4,5/6/7,5/9/12 VDC		
Output Current	300mA	500mA	1000mA 900mA (12V)
Output Power	3,6 VA	6,0 VA	10,8 VA
Short-Circuit Protection	no		
Output	non-regulated		
Dimensions	82x56x84mm	92x56x84mm	98x64x91mm

Part No.	Ord.No.
S MW 883 GS	44792
S MW 895 GS	44793
S MW 9210 GS	44795

MW 1205 GS



Technical Parameters	MW 1205 GS
Input Voltage	230 VAC
Output Voltage	12 VDC
Output Current	500mA
Output Power	6,0 VA
Short-Circuit Protection	yes
Output	non-regulated
Dimensions	67x50x80mm

Part No.	Ord.No.
S MW 1205 GS	7192

MW 1895 UGS/8XC2, MW 1928 UGS/8XC2



Technical Parameters	MW 1895 UGS/8XC2	MW 1928 UGS/8XC2
Input Voltage	230 VAC	
Output Voltage	3/4,5/6/7,5/9/12 VDC	
Output Current	500mA	800mA
Output Power	6,0 VA	9,6 VA
Short-Circuit Protection	no	
Output	non-regulated	
Dimensions	94,5x61,5x91,5 mm	98,8x69x102 mm

Part No.	Ord.No.
S MW 1895 UGS	54437
S MW 1928 UGS	55516

MB120D030UGS/E+



230/12V Adaptor with CL Socket (car socket)



Technical Parameters	MB120D030UGS/E+	230/12V adaptor with CL
Input Voltage	230 VAC	230 VAC
Output Voltage	12 VDC	12 VDC
Output Current	300mA	1A
Output	non-regulated	non-regulated

Part No.	Ord.No.
S MB120D030UGS/E+	52387
S Adaptor 230/12V CL socket	62813

Linear - Regulated Adaptors

MWS 1883 GS, MWS 1895 GS



Technical Parameters	MWS 1883 GS	MWS 1895 GS
Input Voltage	230 VAC	
Output Voltage	1,5/3/4,5/6/7,5/9/12 VDC	
Output Current	300mA	1000mA 900mA (12V)
Output Power	3,6 VA	6,0 VA
Short-Circuit Protection	no	
Output	regulated	
Dimensions	95x61x94mm	92x56x84mm
Note	LED indication of selected voltage	

Part No.	Ord.No.
S MWS 1883 GS	56902
S MWS 1895 GS	54438

MW S9211 GS, MW RS 895 GS



Technical Parameters	MWS 9211 GS	MWRS 895 GS
Input Voltage	230V	
Output Voltage	1,5/3/4,5/6/7,5/9/12 VDC	
Output Current	1,4A -1A	1A - 0,5A
Output Power	12,0 VA	6,0 VA
Short-Circuit Protection	yes	
Output	regulated	
Dimensions	98x64x91mm	92x56x94mm
Note	rotary input plug	

Part No.	Ord.No.
S MWS 9211 GS	44798
S MWRS 895 GS	47101

MW S1204 GS



Technical Parameters	MWS 1204 GS
Input Voltage	230 VAC
Output Voltage	12 VDC
Output Current	400mA
Output Power	4,8 VA
Short-Circuit Protection	yes
Output	regulated
Dimensions	92x56x84mm

Part No.	Ord.No.
S MWS 1204 GS	6327

Accessories

MW 38-130WFP



The spare cord with 6 connectors



Part No.	Ord.No.
S MW 38-130	38828

Switching Adaptors

MV xxxMGS Series



Technical Parameters	MV ... MGS
Input Voltage	100-240 VAC
Output Power	4.03-6.2VA
Dimensions	96x62x30mm

Part No.	Ord.No.	Description
S MV 050P130MGS	63813	5V/1300mA
S MV 090P080MGS	63814	9V/800mA
S MV 120P067MGS	63815	12V/670mA
S MV 240P030MGS	63817	24V/300mA

MW 7NU10GS



With USB outlet.
Suitable for worldwide use.
1000mA.

Technical Parameters	MW 7NU10GS
Input Voltage	100-240 VAC
Output Power	5VDC
Output Current	1000mA
Dimensions	88x64x30mm

Part No.	Ord.No.
S MW 7NU10GS	63069

MW 7E08 GS MW 7E12 GS



MW 7C20T GS



Technical Parameters	MW 7E08 GS	MW 7E12 GS	MW 7C20T UGS
Input Voltage	100-240 VAC		
Output Voltage	1,5/3/4,5/6//7,5/9/12 VDC		
Output Current	1600mA 800mA (12V)	1200mA	2000mA
Output Power	9,6 VA	14,4 VA	24 VA
Dimensions	82x36x88mm	82x36x88mm	118x62x84mm

Part No.	Ord.No.
S MW 7E08 GS	47001
S MW 7E12 GS	49217
S MW 7C20T UGS	47002

MW 7H50 GS



MO 050P240PGS



Technical Parameters	MW 7H50 GS	MO 050P240PGS
Input Voltage	100-240 VAC	
Output Voltage	6/7,5/9/12/13,5/15 VDC	5 VDC
Output Current	5000mA / 3800mA	2400mA
Output Power	75 VA	12 VA
Dimensions	136x70x37mm	88x61x38mm

Part No.	Ord.No.
S MO 050P240PGS	55611
S MW 7H50 GS	46712

MM120P500H5GS MM240P240H5GS



Technical Parameters	MM 120P500H5GS	MM 240P240H5GS
Input Voltage	100-240 VAC	
Output Voltage	12 VDC	24 VDC
Output Current	5000mA	2400mA
Output Power	60 VA	58 VA
Dimensions	136x70x37mm	136x70x37mm
Note	Desktop , output conn. 5,5/2,1mm	

Part No.	Ord.No.
S MM 120P500H5GS	54069
S MM 240P240H5GS	48048

Switching Adaptors (continued)

MW 2102 GS, MW 2103 GS



FOR NOTEBOOKS

Technical Parameters	MW 2102 GS	MW 2103 GS
Input Voltage	100-240 VAC	
Output Voltage	15/16/18/19/20/22/24 VDC	
Output Current	3500mA (15-22VDC) 3000mA (24VDC)	6000mA (15-20VDC) 5000mA (22-24VDC)
Output Power	77 VA	
Dimensions	136x70x37mm	175,5x70,5x38mm

Part No.	Ord.No.
S MW 2102 GS	49283
S MW 2103 GS	56950

MW 2172



FOR NOTEBOOKS

Technical Parameters	MW 2172
Input Voltage	12-13,8 VDC
Output Voltage	15/16/18/19/20/22/24 VDC
Output Current	3500mA
Output Power	84 VA
Dimensions	130x65x25mm

Part No.	Ord.No.
S MW 2172	50771

PWS 120

NTS 150 W



FOR NOTEBOOKS

Technical Parameters	PWS 120	NTS 150 W
Input Voltage	100-240 VAC	100-240 VAC
Output Voltage	15-24 VDC	15-24 VDC
Output Current	6000mA	8500mA
Output Power	120W	150W
Dimensions	160x70x30mm	180x70x30mm

Part No.	Ord.No.
S PWS 120	49920
S NTS 150 W	59570

DC/DC Converters

MW 238/8XC2

MW 292



Technical Parameters	MW 238/8XC2	MW 292
Input Voltage	12 VDC	12-24VDC
Output Voltage	1,5/3/4,5/6/7,5/9/12 VDC	1,5-12VDC
Output Current	1200mA	2000mA
Output Power	14,4 VA	
Short-Circuit Protection	-	
Output	regulated	regulated
Dimensions	103x46x59mm	100x70x32mm
Note	CL plug	CL plug

Part No.	Ord.No.
S MW 238	55547
S MW 292	60940

MW 210



with USB outlet

Technical Parameters	MW 210
Input Voltage	12 - 13,8V
Output Voltage	5VDC
Output Current	1000mA
Output	regulated
Note	CL plug

Part No.	Ord.No.
S MW 210	57526

230VAC/115VAC Voltage Converters

KXT100

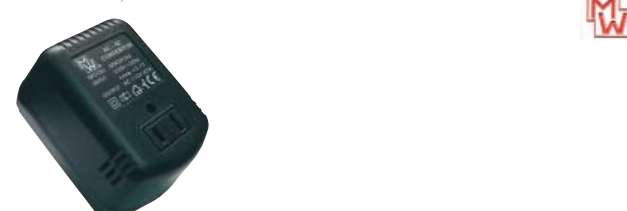
KXT200



Technical Parameters	KXT100	KXT200
Input Voltage	220-240 VAC	
Output Voltage	110-120 VAC	
Rated load	100 W	100/200 W
Dimensions	90x65x90mm	120x70x65mm
Note	Desktop	Desktop

Part No.	Ord.No.
O KXT100	44576
S KXT200	44575

MW 2P045, MW 2P100



Technical Parameters	MW 2P045	MW2P100
Input Voltage	230 VAC	200-240 VAC
Output Voltage	100-120 VAC	100-120 VAC
Rated Power	45 W	100 W
Dimensions	88x62x88mm	115x84x69mm
Note	Plug-in	Desktop

Part No.	Ord.No.
S MW 2P045	49284
S MW 2P100	49285

MW 2P200, MW 2P300



Technical Parameters	MW 2P200	MW 2P300
Input Voltage	200-240 VAC	
Output Voltage	100-120 VAC	
Rated Power	200 W	300 W
Dimensions [mm]	198x136x101	
Note	Desktop	
Part No.	Ord.No.	
S MW 2P200	49286	
S MW 2P300	49287	

MW200, MW500, MW1000



Technical Parameters	MW200	MW500	MW1000
Input Voltage	220-240 VAC		
Output Voltage	110-120 VAC		
Rated Power	200W	500W	1000W
Dimensions [mm]	130x90x80	163x105x95	215x118x155
Note	Desktop 1xUS-socket	Desktop 2xUS-socket	Desktop
Part No.	Ord.No.		
O MW200	44962		
S MW500	48070		
S MW1000	47258		

12(24) VDC/115VAC Voltage Converters

GP-12-xx, GP-24-1xx Series



Technical Parameters	GP-12-150	GP-12-300	
Input Voltage	10-14 VDC	10-14 VDC	
Output Voltage	230 VAC	230 VAC	
Rated load	150/450W	300/1000 W	
Dimensions [mm]	165x86x49	165x86x49	
Note	softstart	softstart	

Technical Parameters	GP-24-150	GP-24-300	GP-24-1000
Input Voltage	24 VDC	24 VDC	24 VDC
Output Voltage	230 VAC	230 VAC	230 VAC
Rated load	150/450W	300/1000 W	1000/2500
Dimensions [mm]	165x86x49	165x86x49	344x122x79
Note	softstart	softstart	softstart

Part No.	Ord.No.
S GP-12-150	59957
S GP-12-300	58134
S GP-24-150	60531
S GP-24-300	58135

G-12-300SINUS



SP 600-012



Technical Parameters	G-12-300SINUS	SP 600-012
Input Voltage	10-14 VDC	10 - 15 VDC
Output Voltage	230 VAC	230 VAC
Rated Power	300/500 W	600/1500W
Dimensions	205x242x82mm	200x173x65mm
Note	Output Voltage has pure sine wave form	modified sine wave
Part No.	Ord.No.	
O G-12-300SINUS	58129	
S SP 600-012	72916	

SW-x-12, SW-x-24 series



Technical Parameters	SW-150-12	SW-300-12	SW-300-24
Input Voltage	11-15 VDC	11-15 VDC	22-30 VDC
Output Voltage	230 VAC	230 VAC	230 VAC
Rated Power	150W	300 W	300 W
Dimension	120x245x70mm	240x245x70mm	240x245x70mm
Note	sinusoidal output	sinusoidal output	sinusoidal output
Technical Parameters	SW-600-12	SW-1200-12	SW-1200-24
Input Voltage	11-15 VDC	11-15 VDC	22-30 VDC
Output Voltage	230 VAC	230 VAC	230 VAC
Rated Power	600W	1200 W	1200 W
Dimension	340x245x70mm	390x245x70mm	390x245x70mm
Note	sinusoidal output	sinusoidal output	sinusoidal output

Technical Parameters	SW-2000-12	SW-2000-24
Input Voltage	11-15 VDC	22-30 VDC
Output Voltage	230 VAC	230 VAC
Rated Power	2000 W	2000 W
Dimension	455x245x70mm	455x245x70mm
Note	sinusoidal output	sinusoidal output

Part No.	Ord.No.
O SW-150-12	65066
O SW-300-12	65067
O SW-300-24	69279
S SW-600-12	65069
S SW-1200-12	65070
O SW-1200-24	68575
O SW-2000-12	65071
S SW-2000-24	68634

Adjustable DC Power Supplies



R124R50E « **DIAMETRAL**
This adjustable stabilised power supply is determined for simple devices and to all places, where is required to adjust the voltage continuously in the range from 0.9V to 24V with possibility to set-up the current limit from 0 ÷ 2A. The power supply is equipped with digital LED display, which shows the voltage or the current

Part No.	Ord.No.
S R124R50E	7724

DC Laboratory Power Supplies



P130R51D « **DIAMETRAL**
Double laboratory power supply with one adjustable power supply with flowing voltage regulation from 0-30V at 0,1 - 4A output current and one constant voltage source 5V/3A.

Part No.	Ord.No.
S P130R51D	7722



P230R51D « **DIAMETRAL**
Triple laboratory power supply with two adjustable power supplies with flowing voltage regulation from 0 to 30V and with possibility of output current limitation from 0.1 ÷ 4A. and one fixed voltage supply 5V/3A. Adjustable power supplies can be connected easily only by pressing a switch into one symmetrical power supply.

Part No.	Ord.No.
S P230R51D	7723



L140R51D « **DIAMETRAL**
one power supply with flowing voltage regulation from 0 ÷ 40V and with possibility of setting the current limit from 0.1 ÷ 3A, and with a fixed voltage source 5V/3A. Individual outputs are galvanically separated.

Part No.	Ord.No.
S L140R51D	55621



L240R51D « **DIAMETRAL**
Triple laboratory power supply is equipped with two power supplies with flowing voltage regulation from 0 ÷ 40V at 0.1 ÷ 3A, and one fixed voltage source 5V/3A. It is supplied with a switch for connection regulated sources into one symmetrical source and fan.

Part No.	Ord.No.
S L240R51D	55622



V130R50D « **DIAMETRAL**
V140R50D
is equipped with an adjustable power supply with flowing voltage regulation from 0 ÷ 30V and with possibility of the output current limitation from 0.1 ÷ 10A. It is suitable for power-demanding applications. Its low ripple and high output current is appreciated mainly by the manufacturers of LF devices.

Type	Ord.No.	Description
S V130R50D	9355	0-30V / 0-10A
O V140R50D	55623	0-40V / 0-10A



Q130R50D « **DIAMETRAL**
is equipped with one adjustable power supply with flowing voltage regulation from 0-30V with possibility of the output current limitation from 0,1-20A. It is suitable for power demanding applications. Its low ripple and high output current is appreciated mainly by the manufacturers of LF devices.

Part No.	Ord.No.
O Q130R50D	48328



M130R50D « **DIAMETRAL**
is equipped with one power supply with flowing voltage regulation from 0-30V/ 0,1-40A, and voltage/current measuring devices. The temperature sensor and fan prevent the power supply from temperature overload.

Part No.	Ord.No.
O M130R50D	48330

DC Adjustable and Laboratory Power Supplies Comparison Table

Technical Parameters	R124R50E	P130R51D	P230R51D	L140R51D	L240R51D	V130R50D	V140R50D	Q130R50D	M130R50D
Supply Voltage	230V/50Hz	230V/50Hz	230V/50Hz	230 V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Output Voltage	1x 0,9 ÷ 24V	1x 0 ÷ 30V	2x 0 ÷ 30V	1x 0 ÷ 40V	2x 0 ÷ 40V	1x 0 ÷ 30V	1x 0 ÷ 40V	1x 0 ÷ 30V	1x 0 ÷ 30V
Output Current	1x 0 ÷ 2A	1x 0 ÷ 4A	2x 0 ÷ 4A	1x 0 ÷ 3A	2x 0 ÷ 3A	1x 0 ÷ 10A	1x 0 ÷ 10A	1x 0 ÷ 20A	1x 0,2 ÷ 40A
Typical Ripple (regul. part)	5mV	2mV	2mV	2mV	2mV	2mV	2mV	2mV	< 2mV
Maximal Ripple (regul. part)	18mV	10mV	10mV	10mV	10mV	10mV	10mV	10mV	10mV
Constant Voltage	-	1x 5V	1x 5V	1x 5V	1x 5V	-	-	-	-
Constant Current	-	1x 3A	1x 3A	1x 3A	1x 3A	-	-	-	-
Typical Ripple (constant part)	5mV	2mV	2mV	2mV	2mV	-	-	-	-
Maximal Ripple (constant part)	18mV	15mV	15mV	15mV	15mV	-	-	-	-
Category of Measuring Devices	digital	digital	digital	digital	digital	digital	digital	digital	digital
Number of dig. Measuring Devices	1	2	4	2	4	2	2	2	2
Accuracy Category of Meas. Devices	2	2	2	2	2	2	2	2	2
Current Limit Indication	optical	Acust./Opt.	Acust./Opt	Acust./Opt	Acust./Opt	Acust./Opt	Acust./Opt	Acust./Opt	Acust./Opt
Switch-off Sound Indication		yes	yes	yes	yes	yes	yes	yes	yes
Blockage Against Peaks During Start		yes	yes	yes	yes	yes	yes	yes	yes
Separate Outputs Switch-off		yes	yes	yes	yes	yes	yes	yes	yes
Thermostat of Coolers with Ventilator		yes	yes	yes	yes	yes	yes	yes	yes
Thermal Safety Fuse for Cooler	yes	no	no	no	no	no	yes	yes	yes
Max. Power Consumption	50 W	160 W	320 W	160 W	320 W	320 W	660 W	620W	2150W
Dimensions in mm (h/w/d):	90x170x153	172x164x282	172x244x282	172x164x282	172x244x282	172x244x282	172x244x282	172x360x282	322x442x282
Weight:	2,9kg	6,1kg	10kg	6,1kg	10kg	9,8kg	11,5kg	19kg	26kg

S - in-stock product O - on order product. Prices are quoted in EUR excluding VAT and transport costs.

AC Power Supplies

« DIAMETRAL



AC250KxD Series

AC laboratory power supply with voltage range from 0 to 255V and maximum output current 1A (2A). Display for the real and preset voltage value. Controlled by the inbuilt software. Output Voltage has the sine form continuance. Regulated version has the output voltage stability of 1-9V according to the actual configuration.

Part No.	Ord.No.	Description
S AC250K1D	7999	0-255V/1A black
S AC250K1D-S	48331	0-255V/1A black, stabilized
O AC250K2D	62426	0-255V/2A black
O AC250K2D-S	54422	0-255V/2A black, stabilized

Technical Parameters	OT230.012	OT230.021	OT230.030	OT230.050	OT230.100
Supply Voltage	230V/50Hz	230V/5 Hz	230V/50 Hz	230V/50 Hz	230V/50 Hz
Output Voltage	230V	230V	230V	230V	230V
Max. Output Current	1,2A	2,1A	3,0A	5,0A	10,0A
Output Safety Fuse	T 250V/1,25A	T250V/2,5A	T250V/3,15A	T250V/6,3A	B10A circuit-breaker
Operating Temperature	10 ÷ 30°C	10 ÷ 30°C	10 ÷ 30°C	10 ÷ 30°C	10 ÷ 30°C
Cable Length	2m	2m	2m	2m	2m

Disjunctive Transformers « DIAMETRAL



OT230 Series

Disjunctive transformer for separating the mains voltage from connected appliance with maximum current consumption according to type of disjunctive transformer.

Part No.	Ord.No.	Description
S OT230.012	48303	230V/230V/1,2A
O OT230.021	59840	230V/230V/2,1A
O OT230.030	54856	230V/230V/3A
O OT230.050	72072	230V/230V/5A
O OT230.100	71521	230V/230V/10A

Autotransformers



RA1F250.031 « DIAMETRAL

Autotransformer RA1F250.031 is equipped with one regulated AC voltage power supply, galvanically separated from supply network.
Input Voltage: 230V/50Hz
Output Voltage: <5 - 230 V
Output Current: max. 3,1A
Output Fuse: yes
Weight: 8,4kg

Part No.	Ord.No.
S RA1F250.031	70519



RA1F250.200 « DIAMETRAL

Autotransformer RA1F250.200 is equipped with one regulated AC voltage power supply, galvanically separated from supply network.
Input Voltage: 230V/50Hz
Output Voltage: <5 - 230 V
Output Current: max. 20A
Output Fuse: yes
Weight: 22,2kg

Part No.	Ord.No.
O RA1F250.200	70522



RA1F250.100 « DIAMETRAL

Autotransformer RA1F250.100 is equipped with one regulated AC voltage power supply, galvanically separated from supply network.
Input Voltage: 230V/50Hz
Output Voltage: <5 - 230 V
Output Current: max. 10A
Output Fuse: yes
Weight: 14,8kg

Part No.	Ord.No.
O RA1F250.100	70520



RZ3F400.060 « DIAMETRAL

3-phase separated autotransformer RZ3F400.060 is equipped with one regulated AC voltage power supply, galvanically separated from supply network.
Input Voltage: 3x 400V / 50Hz
Output Voltage: <5 - 400 V
Output Current: max. 6A
Output Fuse: circuit-breaker B3x 6A
Weight: 88kg

Part No.	Ord.No.
O RZ3F400.060	71523 3x <5-400V/3x6A

Technical Parameters	RA1F250.031	RA1F250.100	RA1F250.200
Supply Voltage	230V / 50Hz	230V / 50Hz	230V / 50Hz
Output Voltage	< 5 ÷ 230V	< 5 ÷ 230V	< 5 ÷ 230V
Output Current	3,1A	10A	20A
Supply Network Fuse/circuit breaker	fuse T 250V/4A	fuse T250V/12,5A	circuit breaker B25A
Output Fuse/circuit breaker	fuse T250V/3,15A	circuit breaker B10A	circuit breaker B20A
Category of Measuring Devices	analog	analog	analog
Number of Measuring Devices	2	2	2
Category of Measuring Devices Accuracy	1,5	1,5	1,5
Operating Temperature	10 ÷ 30°C	10 ÷ 30°C	10 ÷ 30°C
Cable Length	2m separable	2m separable	2m fixed
Weight	cca 8,4kg	cca 14,8kg	cca 22,2kg

Laboratory Power Supplies

ECONOMIC

ECONOMIC series of laboratory power supplies are not suitable for professional and continuous operation. If they supply more than 75% of the total power supply to the load, they may work max. 1 hour.



HY1503D

Precise laboratory DC power supply which can operate in two modes: as voltage supply or as current supply. Two LCD displays indicate voltage and current outputs.

Input Voltage: 230 V / 50 Hz
Output Voltage: 0-15 V

Output Current: continuously adjustable 0-3 A

Dimension: 206x153x110 mm

Part No.	Ord.No.	Description
S HY 1503 D	57240	0-15V/3A



HY 3003 D

Precise laboratory DC power supply which can operate in two modes: as voltage supply or as current supply. Two LCD displays indicate voltage and current outputs.

Input Voltage: 230 V / 50 Hz
Output Voltage: 0-30V, continuously adjustable

Output Current: 0-3A, continuously adjustable

Dimension: 291x158x136mm

Part No.	Ord.No.	Description
S HY 3003 D	11160	0-30V/3A



HY 3005

Precise laboratory DC power supply for power demanding applications. HY 3005 can operate in two modes: as voltage supply or as current supply. 2 LED displays indicate voltage and current outputs, characters are readable in darkness.

Input Voltage: 230 V / 50 Hz
Output Voltage: 0-30V, continuously adjustable

Output Current: 0-5A, continuously adjustable

Dimension: 291x158x136mm

Part No.	Ord.No.	Description
S HY 3005	59454	0-30V/5A



HY 3003 D-3

Precise double laboratory DC power supply which can operate in two modes: as a power supply or a current supply. 4 LCD displays indicate voltage and current outputs.

Input Voltage: 230 V / 50 Hz
Output Voltage: 2x 0-30V, continuously adjustable

Output Current: 2x 0-3A, continuously adjustable

Fixed output: +5V / 3A (± 3%)

Dimension: 310x165x265mm

Part No.	Ord.No.	Description
S HY 3003 D-3	1786	2x0-30V/3A+5V/3A



HY 3003-3

Precise double laboratory DC power supply which can operate in two modes: as a power supply or as a current supply. 2 LED displays indicate voltage and current outputs, readable in darkness.

Input Voltage: 230 V / 50 Hz
Output Voltage: 2x 0-30V, continuously adjustable

Output Current: 2x 0-3A (5A), continuously adjustable

Fixed output: +5V / 3A (± 3%)

Dimension: 310x165x265mm

Part No.	Ord.No.	Description
S HY 3003-3	59449	2x0-30V/3A + 5V/3A
S HY 3005-3	59452	2x0-30V/5A + 5V/3A



HY 3010

HY 3020

Precise laboratory DC power supplies for power demanding applications. They can operate in two modes: as voltage supplies or as current supplies. 2 LED displays indicate voltage and current outputs.

Input Voltage: 230 V / 50 Hz

Output Voltage: 0-30V, continuously adjustable

Output Current: 0-10A (20A), continuously adjustable

Dimension: 365x265x164mm

Part No.	Ord.No.	Description
O HY 3010	59455	0-30V/10A
O HY 3020	61372	0-30V/20A



SP 150

SP150 series power supply is a stabilized switch mode power supply of DC voltage from 0 V to 30 V (0 V to 50 V).

Maximum value of Output Current is 5 A (3 A) with the ability to continuously adjust the current limitation. Three-digit LCD display indicates voltage or current outputs.

This product is intended for general use to feed electric and electronic devices inside buildings and in environments without risk of explosion.

Weight: 1,5kg, dimension 240x123x64mm.

Max. Output Power: 150W

Input Voltage: 230V/50Hz

Output Voltage: 0 - 30V (50V)

Output Current setting: continuous

Current limitation setting: 0,2 - 5A (3A)

Part No.	Ord.No.
S SP 150 30V/5A	4161
S SP 150 50V/3A	4162

Laboratory Furniture

« DIAMETRAL

Measuring, laboratory and working table **VarioLab+** is intended for school classrooms, electro-technical workshops and research, production and repair workplaces. The modular design of tables allows equipping according to the user's specific requirements. Thanks to special interlocking structure of the supporting part, the individual tables can be combined into self-contained groups and each table can be completed with further shelves, holders, etc. Therefore it is possible to place the individual parts, including the working desk, at valuable height level according to the specific needs of each user by 1 mm and individual tables can be simply concatenated in continuous straight or corner working centres.

The supporting part of table is made from massive metal parts. The surface of this metal frame is made from baked-on coating Comaxit (available in different colours) and galvanic zinc.

The working desk of table is made from first-grade high-pressure laminate of 28mm thickness with increased resistance against an abrasion and a single of the top layers. Desk's edges are made from plastic 4xABS of 2mm thickness. Laboratory table working desk's dimensions are specified according to each particular set. Upon request, the working desk can be supplied with antistatic surface modification.

The superstructure with instruments is made from laminate of 18mm thickness with the same features as the main working desk of the table. Devices placed in the superstructure are inclined by an angle of 10% for easier legibility.

Instrumental equipment of the superstructure is implemented according to specific requirements of each customer. Models of inbuilt instruments are in most cases modified from serial instruments manufactured by the company Diametral Ltd. Most of modules are supplied with their own switch and control light. Each superstructure is supplied with main circuit breaker, protector and TOTAL STOP.

Main Features:

- fix and firm construction
- modularity, expandability
- modern ergonomic design
- optional antistatic performance
- smart way to set the working desk, shelf and superstructure high level
- smart way of cable duct inside the table legs
- wide selection of in-built devices and accessories
- custom-designed devices and accessories
- various widths of tables and heights of table legs
- high resistant and first-rate quality materials
- high quality manufacturing.



Superstructures with devices are made in various widths and single or double performance



Legible display of all values and devices control under 10° angle

VARIOLAB+

www.diametral.cz



phone:
+421 55 78 604 18

+49 (0) 8151 44 9711
+421 55 78 604 10-17

+420 543 427 111
+36 46 501 380

+48 42 648 4576
+40 311 020 475

internet:
www.soselectronic.com

e-mail:
sales@soselectronic.com
info@soselectronic.com

fax:
+421 55 78 604 45

technical support:
technik@soselectronic.com