



ENERGY. ANYTIME. ANYWHERE.

# Price List

2015 Q2 EX VAT C Euro





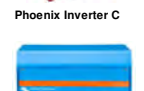


New products are marked with 

Price changes are marked in red




Article number with suffix (R): also available in retail packaging  
Article number with suffix R: available in retail packaging only










**victron energy**  
BLUE POWER

INVERTERS		Ex VAT					
		hxwxd	CE e	VEBus	kg		
	230VAC/50Hz Sinewave						
	Phoenix 12/180 Schuko outlet*	PIN012181200	72 x 132 x 200	√	√	2.7	€ 107
	Phoenix 12/350 Schuko outlet*	PIN012351200	72 x 155 x 237	√	√	3.5	€ 138
	Phoenix 12/800 Schuko outlet*	PIN128010200	104 x 194 x 305	√	√	6.5	€ 345
	Phoenix 12/1200 Schuko outlet*	PIN121220200	104 x 194 x 305	√	√	8.5	€ 505
	Phoenix 24/180 Schuko outlet*	PIN024181200	72 x 132 x 200	√	√	2.7	€ 107
	Phoenix 24/350 Schuko outlet*	PIN024351200	72 x 155 x 237	√	√	3.5	€ 138
	Phoenix 24/800 Schuko outlet*	PIN248010200	104 x 194 x 305	√	√	6.5	€ 345
	Phoenix 24/1200 Schuko outlet*	PIN241220200	104 x 194 x 305	√	√	8.5	€ 505
	Phoenix Inverter C 12/1200	CIN121220000	375 x 214 x 110	√	√	10	€ 633
	Phoenix Inverter C 12/1600	CIN121620000	375 x 214 x 110	√	√	10	€ 772
	Phoenix Inverter C 12/2000	CIN122020000	520 x 255 x 125	√	√	13	€ 872
	Phoenix Inverter 12/3000	PIN123020000	362 x 258 x 218	√	√	18	€ 1.373
	Phoenix Inverter C 24/1200	CIN241220000	375 x 214 x 110	√	√	10	€ 633
	Phoenix Inverter C 24/1600	CIN241620000	375 x 214 x 110	√	√	10	€ 772
	Phoenix Inverter C 24/2000	CIN242020000	520 x 255 x 125	√	√	13	€ 872
	Phoenix Inverter 24/3000	PIN243020000	362 x 258 x 218	√	√	18	€ 1.373
	Phoenix Inverter 24/5000	PIN245020000	444 x 328 x 240	√	√	28	€ 2.162
	Phoenix 48/350 IEC outlet	PIN048351100	72 x 155 x 237	√		3.5	€ 155
	Phoenix 48/350 Schuko outlet	PIN048351200	72 x 155 x 237	√		3.5	€ 155
	Phoenix 48/800 IEC outlet	PIN488010100	108 x 165 x 305	√		6.5	€ 351
	Phoenix 48/800 Schuko outlet	PIN488010200	104 x 194 x 305	√		6.5	€ 351
	Phoenix 48/1200 IEC outlet	PIN481220100	108 x 165 x 305	√		8.5	€ 540
	Phoenix 48/1200 Schuko outlet	PIN481220200	104 x 194 x 305	√		8.5	€ 540
	Phoenix Inverter 48/3000	PIN483020000	362 x 258 x 218	√	√	18	€ 1.526
	Phoenix Inverter 48/5000	PIN485020000	444 x 328 x 240	√	√	28	€ 2.162
	Phoenix Inverter 48/3000	PIN483020000	362 x 258 x 218	√	√	18	€ 1.526
	Phoenix Inverter 48/5000	PIN485020000	444 x 328 x 240	√	√	28	€ 2.162





\* All 12V and 24V inverters with Schuko outlet are also available with the following outlets:  
IEC (male plug included), UK, AU/NZ (see appendix for article numbers)






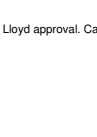


INVERTER/CHARGERS		Ex VAT					
		hxwxd	CE e	VEBus	kg		
	230VAC/50Hz Sinewave						
	MultiPlus C 12/800/35-16	CMP128010000	375 x 214 x 110	√	√	10	€ 736
	MultiPlus C 12/1200/50-16	CMP121220000	375 x 214 x 110	√	√	10	€ 921
	MultiPlus C 12/1600/70-16	CMP121620000	375 x 214 x 110	√	√	10	€ 1.046
	MultiPlus C 12/2000/80-30	CMP122020000	520 x 255 x 125	√	√	13	€ 1.308
	MultiPlus 12/3000/120-16	PMP123020000	362 x 258 x 218	√	√	18	€ 1.616
	MultiPlus 12/3000/120-50	PMP123021010	362 x 258 x 218	√	√	18	€ 1.744
	Quattro 12/3000/120-50/30	QUA123020010	362 x 258 x 218	√	√	19	€ 2.210
	Quattro 12/5000/220-100/100	QUA125020000	470 x 350 x 280	√	√	34	€ 3.442
		MultiPlus C 24/800/16-16	CMP248010000	375 x 214 x 110	√	√	10
MultiPlus C 24/1200/25-16		CMP241220000	375 x 214 x 110	√	√	10	€ 921
MultiPlus C 24/1600/40-16		CMP241620000	375 x 214 x 110	√	√	10	€ 1.046
MultiPlus C 24/2000/50-30		CMP242020000	520 x 255 x 125	√	√	13	€ 1.308
MultiPlus 24/3000/70-16		PMP243020001	362 x 258 x 218	√	√	18	€ 1.616
MultiPlus 24/3000/70-50		PMP243021010	362 x 258 x 218	√	√	18	€ 1.744
MultiPlus 24/5000/120-100		PMP245021010	444 x 328 x 240	√	√	30	€ 2.326
Quattro 24/3000/70-50/30		QUA243020000	362 x 258 x 218	√	√	19	€ 2.100
Quattro 24/5000/120-100/100		QUA245021010	444 x 328 x 240	√	√	30	€ 2.878
Quattro 24/8000/200-100/100		QUA248020010	470 x 350 x 280	√	√	41	€ 3.632
	MultiPlus 48/3000/35-16	PMP483020000	362 x 258 x 218	√	√	18	€ 1.616
	MultiPlus 48/3000/35-50	PMP483021010	362 x 258 x 218	√	√	18	€ 1.744
	MultiPlus 48/5000/70-100	PMP485021010	444 x 328 x 240	√	√	30	€ 2.326
	Quattro 48/5000/70-100/100	QUA485021010	444 x 328 x 240	√	√	30	€ 2.878
	Quattro 48/5000/70-100/100-S	QUA485021011	500 x 328 x 240	√	√	31	€ 2.878
	Quattro 48/8000/110-100/100	QUA488020000	470 x 350 x 280	√	√	41	€ 3.328
	Quattro 48/10000/140-100/100	QUA481030010	470 x 350 x 280	√	√	45	€ 3.977
	EasyPlus C 12/1600/70-16	CEP121620000	510 x 214 x 110	√	√	11	€ 1.200

INVERTER/CHARGERS OPTIMISED FOR SELF CONSUMPTION / HOME STORAGE		Ex VAT					
		hxwxd	CE e	VEBus	kg		
	5 years warranty. Ready to go software						
	EComulti 24/3000/70-50 2,3 kWh LiFePO <sub>4</sub>	EMP243020100	475 x 575 x 360	√	√	60	€ 3.000
	(2x Lithium battery 12,8V/90Ah - BMS (BAT512900400) must be ordered separately)						
	EasySolar 12/1600/70-16 MPPT 100/50	CEP121621000	745 x 214 x 110	√	√	12	€ 1.380
	EasySolar 24/1600/40-16 MPPT 100/50	CEP241621010	745 x 214 x 110	√	√	12	€ 1.380
EasySolar 24/3000/70-50 2xMPPT 100/50	PMP243026010	362 x 280 x 218	√	√	24	€ 2.200	
EasySolar 48/3000/35-50 2xMPPT 150/35	PMP483026010	362 x 280 x 218	√	√	24	€ 2.200	

INVERTERS 120VAC							Ex VAT	
120VAC/60Hz Sinewave								
			hxwd	€	e	VE.Bus	kg	
 Phoenix Inverter 12/800	Phoenix 12/180 NEMA 5-15R socket	PIN012181110	72 x 132 x 200	√			2,7	€ 107
	Phoenix 12/350 NEMA 5-15R socket	PIN012351110	72 x 155 x 237	√			3,5	€ 138
	Phoenix 12/800 NEMA 5-15R socket	PIN128010500	104 x 194 x 305	√			6,5	€ 345
	Phoenix 12/1200 NEMA 5-15R socket	PIN121220500	104 x 194 x 305	√			8,5	€ 505
 NEMA 5-15R	Phoenix 24/180 NEMA 5-15R socket	PIN024181110	72 x 132 x 200	√			2,7	€ 107
	Phoenix 24/350 NEMA 5-15R socket	PIN024351110	72 x 155 x 237	√			3,5	€ 138
	Phoenix 24/800 NEMA 5-15R socket	PIN248010500	104 x 194 x 305	√			6,5	€ 345
	Phoenix 24/1200 NEMA 5-15R socket	PIN241220500	104 x 194 x 305	√			8,5	€ 505
 Phoenix Inverter 12/3000  Phoenix Inverter 24/3000	Phoenix 48/350 NEMA 5-15R socket	PIN048351110	72 x 155 x 237	√			3,5	€ 155
	Phoenix 48/800 NEMA 5-15R socket	PIN488010500	104 x 194 x 305	√			6,5	€ 351
	Phoenix 48/1200 NEMA 5-15R socket	PIN481220500	104 x 194 x 305	√			8,5	€ 540
	Phoenix Inverter 12/3000	PIN123020100	362 x 258 x 218	√		√	18	€ 1.373
	Phoenix Inverter 24/3000	PIN243020100	362 x 258 x 218	√		√	18	€ 1.373
INVERTER/CHARGERS 120VAC								
120VAC/60Hz Sinewave								
 MultiPlus	MultiPlus C 12/2000/80-50 120V	CMP122020100	520 x 255 x 125	√		√	13	€ 1.308
	MultiPlus C 24/2000/50-50 120V	CMP242020100	520 x 255 x 125	√		√	13	€ 1.308
	MultiPlus 12/3000/120-50 120V	PMP123021102	362 x 258 x 218	√		√	18	€ 1.616
	Quattro 12/5000/200-100/100 120V	QUA125021100	470 x 350 x 280	√		√	34	€ 3.442
 Quattro	MultiPlus 24/3000/70-50 120V	PMP243021102	362 x 258 x 218	√		√	18	€ 1.616
	Quattro 24/5000/120-100/100 120V	QUA245023110	444 x 328 x 240	√		√	30	€ 2.878
	Quattro 48/3000/35-50/50 120V	QUA483021100	362 x 258 x 218	√		√	18	€ 2.100
	Quattro 48/5000/70-100/100 120V	QUA485021100	444 x 328 x 240	√		√	30	€ 2.878
BATTERY CHARGERS: waterproof 120VAC								
 Blue Power Charger (Waterproof IP65)	120VAC/45-65Hz			IP65				
	1 output. With NEMA 5-15R plug							
	Blue Power 12/7 IP65 Waterproof (1)	BPC012007110	43 x 80 x 155	√			0,85	€ 105
	Blue Power 24/12 IP65 Waterproof (1)	BPC024012110	47 x 99 x 193	√			1,4	€ 186
BATTERY CHARGERS: IP20 120VAC								
	90-130VAC/45-65Hz or 125-175VDC			IP20				
	1 output, natural convection cooling. With NEMA 5-15R plug							
	Blue Power Charger 12/7 IP20 (1)	BPC120706100	60 x 90 x 210	√			1,3	€ 85
	Blue Power Charger 12/15 IP20 (1)	BPC121506100	60 x 90 x 210	√			1,3	€ 108
	Blue Power Charger 24/8 IP20 (1)	BPC240806100	60 x 90 x 210	√			1,3	€ 94



BATTERY CHARGERS Microprocessor controlled		hwxwd	€	e	kg	Ex VAT	
 Automotive IP65 Charger	<b>180-265VAC/45-65Hz or 250-350VDC</b> <b>IP65</b> <b>1 output, natural convection cooling. With CEE 7/16 Plug (Europlug)</b> <b>Automotive IP65 Charger 6V/12V-1,1A</b> (includes DC connector with clamps, eyelets and cigarette plug)	BPC120180034R	42 x 61 x 185	✓	0,6	€ 36	
	<b>Automotive IP65 Charger 12V/4A-12V/1A</b> (includes DC connector with clamps, eyelets and cigarette plug)	BPC120480034R	42 x 61 x 185	✓	0,6	€ 43	
	<b>180-265VAC/45-65Hz or 250-350VDC</b> <b>IP65</b> <b>1 output, natural convection cooling. With CEE 7/7 Plug (Schuko).</b> (includes DC connector with clamps and M8 eyelets)						
 Blue Power IP65 Charger	<b>Blue Power IP65 Charger 12/5 + DC connector</b>	BPC120530064R	47 x 95 x 190	✓	0,9	€ 79	
	<b>Blue Power IP65 Charger 12/7 + DC connector</b>	BPC120730064R	47 x 95 x 190	✓	0,9	€ 110	
	<b>Blue Power IP65 Charger 12/10 + DC connector</b>	BPC121030064R	60 x 105 x 190	✓	0,9	€ 130	
	<b>Blue Power IP65 Charger 12/15 + DC connector</b>	BPC121530064R	60 x 105 x 190	✓	0,9	€ 150	
	<b>Blue Power IP65 Charger 24/5 + DC connector</b>	BPC240530064R	47 x 95 x 190	✓	0,9	€ 110	
	<b>Blue Power IP65 Charger 24/8 + DC connector</b>	BPC240830064R	60 x 105 x 190	✓	0,9	€ 150	
	<b>With AS/NZS 3112 plug (AU/NZ)</b> <b>Blue Power IP65 Charger 12/7 + DC connector</b>	BPC120730014R	47 x 95 x 190	✓	★	0,9	€ 110
<b>Blue Power IP65 Charger 12/10 + DC connector</b>	BPC121030014R	60 x 105 x 190	✓	★	0,9	€ 130	
<b>Blue Power IP65 Charger 12/15 + DC connector</b>	BPC121530014R	60 x 105 x 190	✓	★	0,9	€ 150	
 12 Volt plug	<b>Accessories for the the Blue Power IP65 Charger</b> <b>M6 eyelet connector (with 30A ATO fuse)</b>	BPC900100004				€ 6	
	<b>2 meter extension cable</b>	BPC900200004				€ 8	
	<b>12 Volt plug (cigarette plug with 16A fuse)</b>	BPC900300004				€ 13	
	<b>Clamp connector (with 30A ATO fuse)</b>	BPC900400004				€ 12	
 Blue Power Charger IP20	<b>180-265VAC/45-65Hz or 250-350VDC</b> <b>IP20</b> <b>1 output, natural convection cooling. With CEE 7/7 Plug (Schuko)</b>						
	<b>Blue Power Charger 12/7 IP20 (1)</b>	BPC120706000	60 x 90 x 210	✓	1,3	€ 76	
	<b>Blue Power Charger 24/5 IP20 (1)</b> <b>Blue Power Charger 24/8 IP20 (1)</b>	BPC240506000 (R) BPC240806000 (R)	60 x 90 x 210 60 x 90 x 210	✓ ✓	1,3 1,3	€ 68 € 94	
 Blue Power Charger IP20	<b>With AS/NZS 3112 plug (AU/NZ)</b> <b>Blue Power Charger 12/7 IP20 (1) AU/NZ</b> <b>Blue Power Charger 12/15 IP20 (1) AU/NZ</b>	BPC120706010R BPC121506010R	60 x 90 x 210 60 x 90 x 210	✓ ✓	1,3 1,3	€ 76 € 94	
	<b>With BS 1363 plug (UK)</b> <b>Blue Power Charger 12/7 IP20 (1) UK</b> <b>Blue Power Charger 24/5 IP20 (1) UK</b> <b>Blue Power Charger 24/8 IP20 (1) UK</b>	BPC120706020R BPC240506020R BPC240806020R	60 x 90 x 210 60 x 90 x 210 60 x 90 x 210	✓ ✓ ✓	1,3 1,3 1,3	€ 76 € 68 € 94	
	<b>1 output, fan assisted cooling</b> <b>Blue Power Charger 24/12 IP20 (1) Schuko</b>	BPC241206000	66 x 90 x 235	✓	1,3	€ 142	
 Blue Power IP22 Charger	<b>180-265VAC/45-65Hz or 250-350VDC</b> <b>IP22</b> <b>1 output or 3 outputs, fan assisted cooling. With CEE 7/7 Plug (Schuko)</b>						
	<b>Blue Power IP22 Charger 12/15 (1)</b>	BPC121521002	235 x 108 x 65	✓	★	1,4	€ 140
	<b>Blue Power IP22 Charger 12/15 (3)</b>	BPC121523002	235 x 108 x 65	✓	★	1,4	€ 160
	<b>Blue Power IP22 Charger 12/20 (1)</b>	BPC122021002	235 x 108 x 65	✓	★	1,4	€ 160
	<b>Blue Power IP22 Charger 12/20 (3)</b>	BPC122023002	235 x 108 x 65	✓	★	1,4	€ 180
	<b>Blue Power IP22 Charger 12/30 (1)</b>	BPC123021002	235 x 108 x 65	✓	★	1,4	€ 190
	<b>Blue Power IP22 Charger 12/30 (3)</b>	BPC123023002	235 x 108 x 65	✓	★	1,4	€ 216
	<b>Blue Power IP22 Charger 24/12 (1)</b>	BPC241221002	235 x 108 x 65	✓	★	1,4	€ 160
	<b>Blue Power IP22 Charger 24/12 (3)</b>	BPC241223002	235 x 108 x 65	✓	★	1,4	€ 180
	<b>Blue Power IP22 Charger 24/15 (1)</b>	BPC241521002	235 x 108 x 65	✓	★	1,4	€ 190
	<b>Blue Power IP22 Charger 24/15 (3)</b>	BPC241523002	235 x 108 x 65	✓	★	1,4	€ 216
	<b>With AS/NZS 3112 plug (AU/NZ)</b> <b>Blue Power IP22 Charger 12/30 (3) AU/NZ</b>	BPC123023012	235 x 108 x 65	✓	★	1,4	€ 216
	<b>With BS 1363 plug (UK)</b> <b>Blue Power IP22 Charger 12/30 (3) UK</b>	BPC123023022	235 x 108 x 65	✓	★	1,4	€ 216
	 IP67 Charger 12/25	<b>180-265VAC/45-65Hz</b> <b>IP67</b> <b>1 output. With CEE 7/7 Plug (Schuko)</b>					
<b>Blue Power IP67 Charger 12/7 (1)</b>		BPC120708006	85 x 211 x 60	✓	1,8	€ 105	
<b>Blue Power IP67 Charger 12/13 (1)</b>		BPC121308006	85 x 211 x 60	✓	1,8	€ 130	
<b>Blue Power IP67 Charger 12/17 (1)</b>		BPC121708006	99 x 219 x 65	✓	2,4	€ 143	
<b>Blue Power IP67 Charger 12/17 (1+Si)</b>		BPC121710006	99 x 219 x 65	✓	2,4	€ 174	
<b>Blue Power IP67 Charger 12/25 (1)</b>		BPC122508006	99 x 219 x 65	✓	2,4	€ 186	
<b>Blue Power IP67 Charger 12/25 (1+Si)</b>		BPC122510006	99 x 219 x 65	✓	2,4	€ 217	
<b>Blue Power IP67 Charger 24/5 (1)</b>		BPC240508006	85 x 211 x 60	✓	1,8	€ 105	
<b>Blue Power IP67 Charger 24/8 (1)</b>		BPC240808006	99 x 219 x 65	✓	2,4	€ 143	
<b>Blue Power IP67 Charger 24/8 (1+Si)</b> <b>Blue Power IP67 Charger 24/12 (1)</b> <b>Blue Power IP67 Charger 24/12 (1+Si)</b>		BPC240810006 BPC241208006 BPC241210006	99 x 219 x 65 99 x 219 x 65 99 x 219 x 65	✓ ✓ ✓	2,4 2,4 2,4	€ 174 € 186 € 217	
<b>With AS/NZS 3112 plug (AU/NZ)</b> <b>Blue Power IP67 Charger 24/12 (1) AU/NZ</b> <b>Blue Power IP67 Charger 24/12 (1+Si) AU/NZ</b>	BPC241208016 BPC241210016	99 x 219 x 65 99 x 219 x 65	✓ ✓	★ ★	2,4 2,4	€ 186 € 217	

BATTERY CHARGERS: analog control							Ex VAT
Universal input 90-265VAC/45-65Hz, or 90-400VDC							
3x full current output							
	Centaur Charger 12/20 (3)	CCH012020000	355 x 215 x 110	√		3,8	€ 307
	Centaur Charger 12/30 (3)	CCH012030000	355 x 215 x 110	√		3,8	€ 351
	Centaur Charger 12/40 (3)	CCH012040000	426 x 239 x 135	√		5	€ 394
	Centaur Charger 12/50 (3)	CCH012050000	426 x 239 x 135	√		5	€ 418
	Centaur Charger 12/60 (3)	CCH012060000	426 x 239 x 135	√		5	€ 449
	Centaur Charger 12/80 (3)	CCH012080000	505 x 255 x 130	√		12	€ 734
	Centaur Charger 12/100 (3)	CCH012100000	505 x 255 x 130	√		12	€ 945
	Centaur Charger 24/16 (3)	CCH024016000	355 x 215 x 110	√		3,8	€ 389
	Centaur Charger 24/30 (3)	CCH024030000	426 x 239 x 135	√		5	€ 544
	Centaur Charger 24/40 (3)	CCH024040000	505 x 255 x 130	√		12	€ 711
Centaur Charger 24/60 (3)	CCH024060000	505 x 255 x 130	√		12	€ 812	
BATTERY CHARGERS: microprocessor control							
Universal input 90-265VAC/45-65Hz, or 90-400VDC							
2x full current output + 1x 4A output							
	Phoenix Charger 12/30 (2+1)	PCH012030001	350 x 200 x 108	√		3,8	€ 418
	Phoenix Charger 12/50 (2+1)	PCH012050001	350 x 200 x 108	√		3,8	€ 616
	Phoenix Charger 24/16 (2+1)	PCH024016001	350 x 200 x 108	√		3,8	€ 425
	Phoenix Charger 24/25 (2+1)	PCH024025001	350 x 200 x 108	√		3,8	€ 616
BATTERY CHARGERS: microprocessor control							
230VAC and 400VAC/45-65Hz, or 180-400VDC							
1x full current output + 1x 4A output							
	Skylia-TG 24/30 (1+1)	SDTG2400301	365 x 250 x 147	√		5,5	€ 707
	Skylia-TG 24/50 (1+1)	SDTG2400501	365 x 250 x 147	√		5,5	€ 765
	Skylia-TG 24/80 (1+1)	SDTG2400801	365 x 250 x 257	√		10	€ 1.254
	Skylia-TG 24/100 (1+1)	SDTG2401001	365 x 250 x 257	√		10	€ 1.514
	Skylia-TG 24/50 3-phase (1+1)	STG024050300	365 x 250 x 257	√		13	€ 1.389
	Skylia-TG 24/100 3-phase (1+1)	STG024100300	515 x 260 x 265	√		23	€ 2.221
	Skylia-TG 24/30 (1+1) 90-265VAC	SDTG2400303	365 x 250 x 147	√	GL**	5,5	€ 863
	Skylia-TG 24/50 (1+1) 90-265VAC	SDTG2400503	365 x 250 x 147	√	GL**	5,5	€ 934
	Skylia-TG 24/100 (1+1) 90-265VAC	SDTG2401003	365 x 250 x 257	√	GL**	10	€ 1.846
	Skylia-TG 24/30 GMDSS 90-265VAC excl. panel	SDTG2400302	365 x 250 x 147	√		6	€ 1.081
	Skylia-TG 24/50 GMDSS 90-265VAC excl. panel	SDTG2400504	365 x 250 x 147	√		6	€ 1.358
	Skylia-TG 48/25 (1+1)	SDTG4800251	365 x 250 x 147	√		5,5	€ 918
	Skylia-TG 48/50 (1+1)	SDTG4800501	365 x 250 x 257	√		10	€ 1.632
	Skylia-i 24/80 (1+1)	SKi024080000	402 x 250 x 140	√		8	€ 1.200
	Skylia-i 24/80 (3)	SKi024080002	402 x 250 x 140	√		8	€ 1.400
	Skylia-i 24/100 (1+1)	SKi024100000	402 x 250 x 140	√		8	€ 1.450
	Skylia-i 24/100 (3)	SKi024100002	402 x 250 x 140	√		8	€ 1.700
	Skylia-i remote on-off cable	ASS030550400		√			€ 35

\*Germanischer Lloyd approval. Category C, EMC 1

**ISOLATION TRANSFORMERS / AUTOTRANSFORMER / GALVANIC ISOLATOR** Ex VAT



		hwxwd	€	e	kg	
Isolation Trans. 2000W 115/230V	ITR040202040	375 x 214 x 110	√		10	€ 479
Isolation Trans. 3600W 115/230V	ITR040362040	362 x 258 x 218	√		23	€ 734
Isolation Trans. 7000W 230V	ITR000702000	362 x 258 x 218	√		26	€ 1.010
Isolation Trans. 3600W Auto 115/230V with automatic inputvoltage detection	ITR050362040	362 x 258 x 218	√		23	€ 918
Autotransformer 120/240VAC-32A	ITR000100000	375 x 214 x 110	√		10	€ 561
Autotransformer 120/240VAC-100A The ultimate solution for split phase installations	ITR000100100	425 x 214 x 110	√		14	€ 795
Galvanic Isolator VDI-16	GDI000016000	60 x 120 x 200	√		1	€ 120

**DC-DC CONVERTERS**



<b>Not isolated, resin encapsulated</b>						
Orion IP67 24/12-5	ORI241204060	25 x 43 x 20	√	★	0,10	May € 20
Orion IP67 24/12-10	ORI241210060	74 x 74 x 32	√	★	0,40	May € 42
Orion IP67 24/12-20	ORI241217060	74 x 74 x 32	√	★	0,45	May € 51



<b>Not isolated</b>						
Orion 24/12-5	ORI241205020 (R)	45 x 90 x 65	√		0,18	€ 35
Orion 24/12-12	ORI241212020 (R)	45 x 90 x 100	√		0,29	€ 48
Orion 24/12-17	ORI241217020 (R)	45 x 90 x 110	√		0,30	€ 51
Orion 24/12-25	ORI241225020	65 x 88 x 160	√		0,70	€ 80
Orion 24/12-40	ORI241240020	65 x 88 x 185	√		0,85	€ 113
Orion 24/12-70	ORI241270020	65 x 88 x 195	√		0,90	€ 180
Orion 24/12-70 with binding posts	ORI241270030	65 x 88 x 195	√		0,90	€ 180



Orion 12/24-8	ORI122408020	45 x 90 x 115	√		0,30	€ 65
Orion 12/24-10	ORI122410020	45 x 90 x 125	√		0,40	€ 80
Orion 12/24-20	ORI122420020	65 x 88 x 195	√		0,90	€ 180



<b>Not Isolated, OEM version, high volume only</b>						
Orion OEM 24/12-10		132 x 128 x 50	√		0,40	
Orion OEM 24/12-15		132 x 128 x 50	√		0,50	
Orion OEM 24/12-20		132 x 128 x 50	√		0,50	



<b>With galvanic isolation</b>						
Orion 12/12-8,3A (100W)	ORI121210100	49 x 88 x 152	√		0,5	€ 100
Orion 12/12-17A (200W)	ORI121220100	49 x 88 x 182	√		0,6	€ 119
Orion 12/12-30A (360W)	ORI121236100	83 x 130 x 191	√		1,4	€ 244
Orion 12/24-4,2A (100W)	ORI122410100	49 x 88 x 152	√		0,5	€ 100
Orion 12/24-8,3A (200W)	ORI122420100	49 x 88 x 182	√		0,6	€ 119
Orion 12/24-15A (360W)	ORI122436100	83 x 130 x 191	√		1,4	€ 244



Orion 24/12-8,3A (100W)	ORI241210100	49 x 88 x 152	√		0,5	€ 100
Orion 24/12-17A (200W)	ORI241220100	49 x 88 x 182	√		0,6	€ 119
Orion 24/12-30A (360W)	ORI241236100	83 x 130 x 191	√		1,4	€ 244
Orion 24/24-4,2A (100W)	ORI242410100	49 x 88 x 152	√		0,5	€ 100
Orion 24/24-8,3A (200W)	ORI242420100	49 x 88 x 182	√		0,6	€ 119
Orion 24/24-15A (360W)	ORI242436100	83 x 133 x 191	√		1,4	€ 244
Orion 24/48-4,2A (200W)	ORI244820100	49 x 88 x 182	√		0,6	€ 119
Orion 24/48-7,5A (360W)	ORI244836100	64 x 163 x 160	√		1,4	€ 244
Orion 48/12-8,3A (100W)	ORI481210100	49 x 88 x 152	√		0,5	€ 100
Orion 48/12-17A (200W)	ORI481220100	49 x 88 x 182	√		0,6	€ 119
Orion 48/12-30A (360W)	ORI481236100	83 x 130 x 191	√		1,4	€ 244
Orion 48/24-4,2A (100W)	ORI482410100	49 x 88 x 152	√		0,5	€ 100
Orion 48/24-8,3A (200W)	ORI482420100	49 x 88 x 182	√		0,6	€ 119
Orion 48/24-15A (360W)	ORI482436100	83 x 130 x 191	√		1,4	€ 244
Orion 48/48-4,2A (200W)	ORI484820100	49 x 88 x 182	√		0,6	€ 119
Orion 48/48-7,5A (360W)	ORI484836100	83 x 130 x 191	√		1,4	€ 244
Orion 110/12-30A (360W)	ORI110123610	64 x 163 x 160	√		1,4	€ 362
Orion 110/24-15A (360W)	ORI110243610	64 x 163 x 160	√		1,4	€ 362
Orion 12/27,6-12A battery charger	ORI122712000	64 x 163 x 160	√		1,4	€ 265
Orion 7-35/12-3A isolated buck-boost	ORIS51203000	49 x 88 x 182	√		0,6	€ 80

## AUTOMATIC TRANSFER SWITCHES



Filax-2

**Filax-2 230V/50Hz-240V/60Hz**  
**Filax-2 110V/50Hz-120V/60Hz**

	hwxwd	€	e	kg
SDFI0000000	120 x 255 x 75	√		0,8
SDFI0000110	120 x 255 x 75	√		0,8
COS230502100	175 x 215 x 120	√		1,4
COS230103100	175 x 215 x 120	√		1,5

**VE Transfer Switch 5kVA/230V**  
**VE Transfer Switch 10kVA/230V**

Transfer switches for general application, with time relay and aux contact for Multi/Digital Control Panel

Please consider the Quattro with integrated transfer switch instead!



VE Transfer Switch 5kVA/230V



VE Transfer Switch 10kVA/230V

## Lynx and DC distribution

<b>Lynx Power In</b>	LYN020102000	290 x 170 x 80	√	2,1	€ 120
<b>Lynx Shunt VE.Net</b>	LYN040102000	190 x 180 x 80	√	1,4	€ 352
<b>Lynx Shunt VE.Can</b>	LYN040102100	190 x 180 x 80	√	1,4	€ 352
<b>Lynx Distributor</b>	LYN060102000	290 x 170 x 80	√	2,2	€ 180
<b>Lynx Ion</b>	See Lithium battery (page 14)				

## ESP DC Link Box (in plastic enclosure)

ESP System Panel conn. / Battery Monitor conn. / Volt sense conn

Populated with 4 Mega fuses (2x 300A, 1x 200A, 1x 100A) and 1 Midi fuse (60A)



ESP DC Link Box



Lynx Power In



Lynx Shunt



Lynx Distributor

## FUSES



MIDI-fuse

MIDI-fuse 100A/32V (package of 5pcs)  
MIDI-fuse 150A/32V (package of 5pcs)  
MIDI-fuse 200A/32V (package of 5pcs)

CIP132100000	8 x 41 x 12	√	€ 26
CIP132150000	8 x 41 x 12	√	€ 26
CIP132200000	8 x 41 x 12	√	€ 26

MIDI-fuse 60A/58V for 48V products  
MIDI-fuse 100A/58V for 48V products

CIP133060000	8 x 41 x 12	√	€ 20
CIP133100000	8 x 41 x 12	√	€ 20



MEGA-fuse

MEGA-fuse 100A/32V (package of 5pcs)  
MEGA-fuse 125A/32V (package of 5pcs)  
MEGA-fuse 150A/32V (package of 5pcs)  
MEGA-fuse 175A/32V (package of 5pcs)  
MEGA-fuse 200A/32V (package of 5pcs)  
MEGA-fuse 225A/32V (package of 5pcs)  
MEGA-fuse 250A/32V (package of 5pcs)  
MEGA-fuse 300A/32V (package of 5pcs)  
MEGA-fuse 400A/32V (package of 5pcs)  
MEGA-fuse 500A/32V (package of 5pcs)

CIP136100000	9 x 67 x 19	√	€ 43
CIP136125000	9 x 67 x 19	√	€ 43
CIP136150000	9 x 67 x 19	√	€ 43
CIP136175000	9 x 67 x 19	√	€ 43
CIP136200000	9 x 67 x 19	√	€ 43
CIP136225000	9 x 67 x 19	√	€ 43
CIP136250000	9 x 67 x 19	√	€ 43
CIP136300000	9 x 67 x 19	√	€ 43
CIP136400000	9 x 67 x 19	√	€ 43
CIP136500000	9 x 67 x 19	√	€ 43

Fuse holder for MEGA-fuse

MEGA-fuse 125A/58V for 48V products  
MEGA-fuse 200A/58V for 48V products  
MEGA-fuse 250A/58V for 48V products

CIP137125000	9 x 67 x 19	√	€ 29
CIP137200000	9 x 67 x 19	√	€ 29
CIP137250000	9 x 67 x 19	√	€ 29


















Fuse CNN

Fuse holder for MEGA-fuse









CIP000100000	97 x 39 x 39	√	€ 31
--------------	--------------	---	------

Fuse 125A/170Vdc  
Fuse CNN 325A/80V for Lynx shunt

CIP138125000	67 x 26	√	€ 55
CIP140325000	15 x 82 x 20	√	€ 56

COLOR CONTROL							Ex VAT
		hwxwd	€	e	kg		
	<b>Color Control GX</b> Graphical User Interface Ethernet (standard) and Wifi (optional) for remote monitoring and control Data storage and graphical display on vrm.victronenergy.com Android and iPhone apps VE.Bus, VE.Can and BMV connectivity	BPP000300100R	130 x 120 x 40	√		€ 500	
	CCGX WiFi module simple ) (Zyxel NWD2105)	BPP900100100		√		€ 23	
	CCGX WiFi module long range (Startech USB300WN2X2D)	BPP900200100		√		€ 60	
VE.Net							
	<b>VE.Net Panel</b> <b>VE.Net GMDSS Panel</b> <b>VE.Net Blue Power Panel 2</b> <b>VE.Net Blue Power Control GX</b> (Both Blue Power Panels have VE.Net and VE.Bus ports)	VPN000100000 VPN000200000 BPP000200000 BPP000200100 (R)	65 x 120 x 40 65 x 120 x 40 130 x 120 x 40 130 x 120 x 40	√ √ √ √		€ 194 € 194 € 255 € 255	
	<b>VE.Net Battery Controller (VBC) 12/24/48V</b> (including 500A/50mV shunt and connection kit)	VBC000300000 (R)	105 x 75 x 22	√		€ 202	
	<b>VE.Net Battery Controller 70-350V</b> (including 500A/50mV shunt in plastic enclosure and connection kit)	VBC000500000				€ 806	
	<b>Shunt 500A/50mV</b> (Does not include connection PCB to BMV-600S/602S)	SHU500050100	45 x 28 x 120	√		€ 35	
	<b>Shunt 1000A/50mV</b> (Can also be used with BMV-600S/602S, does not include connection PCB to BMV-600S/602S)	SHU102050200	80 x 30 x 168	√		€ 115	
	<b>Shunt 2000A/50mV</b> (Can also be used with BMV-600S/602S, does not include connection PCB to BMV-600S/602S)	SHU202050200	80 x 50 x 168	√		€ 180	
	<b>VE.Net Tank Monitor (Current)</b> <b>VE.Net Tank Monitor (Resistive)</b> <b>VE.Net Tank Monitor (Voltage)</b>	VCS000100000 VRS000100000 VVS000100000	105 x 75 x 22 105 x 75 x 22 105 x 75 x 22	√ √ √		€ 204 € 204 € 204	
		<b>VE.Net Tank Monitor</b>					
		<b>Shunt 1000A/50mV</b>					
		<b>Shunt 2000A/50mV</b>					
REMOTE PANELS							
	<b>Digital Multi Control 200/200A</b> <b>Digital Multi Control 200/200A GX</b> <b>Digital Multi Control 200/200A GX (90° RJ45)</b> Above panels can be used with all Multi(Plus) and Quattro inverter/chargers	REC020005000 DMC000100000 DMC000200000R	65 x 120 x 40 65 x 120 x 40 65 x 120 x 40	√ √ √		€ 133 € 133 € 133	
	<b>Phoenix Inverter Control</b> <b>Phoenix Charger Control</b>	REC030001200 REC010001100	65 x 60 x 40 65 x 120 x 40	√ √		€ 66 € 69	
	<b>Skylia-i Control GX (90° RJ45)</b> <b>Charger Switch</b> <b>Skylia Control</b> <b>Battery Alarm GX</b>	REC000300000R SDRPCSV SDRPSKC BPA000100000R	65 x 120 x 40 65 x 60 x 40 65 x 120 x 40 65 x 120 x 40	√ √ √ √		€ 133 € 73 € 120 € 61	
	<b>Victron Global Remote 2 (VGR-2)*</b> (dc supply voltage range: 10-34V)	VGR000200000	73 x 54.5 x 25.5	√		€ 501	
	<b>Victron Ethernet Remote**</b> (dc supply voltage range: 10-34V)	VGR200100000	73 x 54.5 x 25.5	√		€ 501	
	<b>Global Remote to BMV-60XS conn. kit</b>	VGR900100000		√		€ 90	
	<b>Outdoor antenna 4dBi for VGR</b> with 5 meter cable	ANT000100050	283 x Ø38	√	0,4	€ 156	
	<b>VGR IO Extender</b> (dc supply voltage range: 10-78V, connects to the VGR-2, but not to the Ethernet Remote)	VGR900030201		√		€ 292	
	<b>Box for wall mounting of GX-panels with 90 degr. RJ45 socket only:</b> - BPA000100000R - Battery Alarm GX - REC000300000R - Skylia-i Control GX (90° RJ45) - DMC000200000R - Digital Multi Control 200/200A GX (90° RJ45)	ASS050300000	80 x 150 x 50	√		€ 20	
	* A VE.Bus system and a Global Remote to BMV-60XS conn. kit +BMV can be connected simultaneously **Accepts either a VE.Bus system or a Global Remote to BMV-60XS conn. kit +BMV						



DATA CABLES and INTERFACES		hxwx	€	e	kg	Ex VAT
<b>Network cables for ESP System and BMV-600 and BMV-700</b>						
	RJ12 UTP Cable 0,3 m	ASS030066003	✓			€ 13
	RJ12 UTP Cable 0,9 m	ASS030066009	✓			€ 13
	RJ12 UTP Cable 1,8 m	ASS030066018	✓			€ 13
	RJ12 UTP Cable 3 m	ASS030066030	✓			€ 13
	RJ12 UTP Cable 5 m	ASS030066050	✓			€ 13
	RJ12 UTP Cable 10 m	ASS030066100	✓			€ 18
	RJ12 UTP Cable 15 m	ASS030066150	✓			€ 20
	RJ12 UTP Cable 25 m	ASS030066250	✓			€ 28
	RJ12 UTP Cable 30 m	ASS030066300 cable-color=grey	✓			€ 31
<b>Network cables for VE.Can, VE.Bus, VE.Net and VE9bitRS485</b>						
	RJ45 UTP Cable 0,3 m	ASS030064900	✓			€ 15
	RJ45 UTP Cable 0,9 m	ASS030064920	✓			€ 15
	RJ45 UTP Cable 1,8 m	ASS030064950	✓			€ 15
	RJ45 UTP Cable 3 m	ASS030064980	✓			€ 17
	RJ45 UTP Cable 5 m	ASS030065000	✓			€ 19
	RJ45 UTP Cable 10 m	ASS030065010	✓			€ 23
	RJ45 UTP Cable 15 m	ASS030065020	✓			€ 28
	RJ45 UTP Cable 20 m	ASS030065030	✓			€ 30
	RJ45 UTP Cable 25 m	ASS030065040	✓			€ 33
	RJ45 UTP Cable 30 m	ASS030065050 cable-color=blue	✓			€ 35
	UTP Cable					
<b>VE.Direct cables, use to connect BMV-70x and low power MPPTs to the Color Control GX</b>						
	VE.Direct Cable 0,3m	ASS030530203	✓			€ 15
	VE.Direct Cable 0,9m	ASS030530209	✓			€ 15
	VE.Direct Cable 1,8m	ASS030530218	✓			€ 15
	VE.Direct Cable 3m	ASS030530230	✓			€ 17
	VE.Direct Cable 5m	ASS030530250	✓			€ 19
	VE.Direct Cable 10m	ASS030530310	✓			€ 23
	VE Direct to USB cable					
	VE.Direct Cable 0,3m (one side Right Angle conn)	ASS030531203	✓			€ 15
	VE.Direct Cable 0,9m (one side Right Angle conn)	ASS030531209	✓			€ 15
	VE.Direct Cable 1,8m (one side Right Angle conn)	ASS030531218	✓			€ 15
	VE.Direct Cable 3m (one side Right Angle conn)	ASS030531230	✓			€ 17
	VE.Direct Cable 5m (one side Right Angle conn)	ASS030531250	✓			€ 19
	VE.Direct Cable 10m (one side Right Angle conn)	ASS030531320	✓			€ 23
	VE.Direct plug					
<b>VE.Direct to BMV60xS Cables, use to connect BMV-60xS to the Color Control GX graphical user interface</b>						
	VE.Direct to BMV60xS Cable 0,3m	ASS030532203	✓			€ 15
	VE.Direct to BMV60xS Cable 0,9m	ASS030532209	✓			€ 15
	VE.Direct to BMV60xS Cable 1,5m	ASS030532215	✓			€ 15
	VE.Direct to BMV60xS Cable 3m	ASS030532230	✓			€ 17
	MK2.2b (VE.Bus to RS232)					
<b>Cables with M8 circular connector (for 12.8V Li-ion batteries)</b>						
	Male to Female 3 pole 1 m (bag of 2)	ASS030560100	✓			€ 22
	Male to Female 3 pole 2 m (bag of 2)	ASS030560200	✓			€ 25
	Male to Female 3 pole 3 m (bag of 2)	ASS030560300	✓			€ 31
	Male to Female 3 pole 5 m (bag of 2)	ASS030560500	✓			€ 36
	MK2-USB (VE.Bus to USB)					
<b>Interfaces to connect Victron products to your computer</b>						
	VE.Direct to USB interface	ASS030530000	✓			€ 58
	Interface MK2-USB (VE.Bus to USB)	ASS030130000	✓			€ 58
	CANUSB interface	ASS030532000	✓			€ 496
	BMV-60xS to NMEA2000					
<b>Interfaces to connect Victron products to NMEA2000</b>						
	VE.Bus to NMEA2000 interface	ASS030520100	✓			€ 292
	VE.Direct to NMEA2000 interface	ASS030520300	✓			€ 292
	VE.Can to NMEA2000 Micro-C male	ASS030520200	✓			€ 100
	BMV-60xS to NMEA2000 interface	ASS030520000	✓			€ 292
	BMV-60xS to VE.Can interface	ASS030520020	✓			€ 292
	RS232 to USB					
<b>Interfaces for industrial use / datacommunication</b>						
	Interface MK2.2b (VE.Bus to RS232)	ASS030120200	✓			€ 58
	RS232 to USB converter	ASS030200000	✓			€ 31
	VE.Direct to RS232 interface	ASS030520500	✓			€ 58
<b>Interfaces to connect Victron products to each other</b>						
	VE.Direct to VE.Can interface	ASS030520400	✓			€ 292
	VE.Direct to Global Remote interface	ASS030534000	✓			€ 58
	VE.Can RJ45 terminator (bag of 2)	ASS030700000	✓			€ 10
	VE.Bus to VE.Can interface	ASS030520105	✓			€ 200
	Inverting remote on-off cable	ASS030550100	✓			€ 25
	Non inverting remote on-off cable	ASS030550200	✓			€ 25
	VE.Direct non inverting remote on-off cable	ASS030550300	✓			€ 35
	VE.Bus BMS to BMS 12-200 alternator control cable	ASS030510100	✓			€ 35
	VE.Net to VE.Bus Conv.					
	Skylla-i remote on-off cable	ASS030550400	✓			€ 35
	VE.Net to VE.Bus Converter	VVC000200000	30 x 105 x 72	✓		€ 204
<b>Miscellaneous</b>						
	Interface 1140	ASS030510000	✓			€ 292
	(For engine driven inverter systems: Travel Power, Dynawatt, etc)					
	AC Current sensor	CSE000100000	✓			€ 40
	Wireless AC sensor, single phase	TIM000100100	✓			€ 125
	Wireless sensor gateway	TIM000100000	✓			€ 250

## DATA CABLES and INTERFACES, continued

Ex VAT

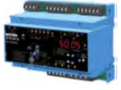
**VE.Direct Bluetooth LE dongle**

ASS030536000



€ 133

For iPhone and Android. Applicable to all products with a VE.Direct communication port.  
(BMV-7 series, all MPPT solar chargers except for the 150/70 and 150/85)

**Ziehl voltage and frequency sensitive relays**

REL100100000

€ 465

**UFR1001E**

Fulfills the requirements of VDE-AR-N 4105, ÖVEIÖNORM E 8001-4-712, G59/3 and G83/2, DIN V VDE V 0126-1-1, ERDF-NOI-RES\_13E

**SPH021**

REL100200000

€ 465

Fulfills the requirements of CEI 0-21-V1

## BATTERY MONITOR BMV-700 &amp; BMV-702

hxwd C e kg

**Battery Monitor BMV-700**

BAM010700000 (R)

65 x 65 x 30



0,3

€ 139

**9 - 90 VDC**

With 500A 'click and connect' shunt and connection kit

**Battery Monitor BMV-702**

BAM010702000 (R)

65 x 65 x 30



0,3

€ 182

**9 - 90 VDC**

With 500A 'click and connect' shunt and connection kit

BMV-700

**Battery Monitor BMV-702 BLACK**

BAM010702200 (R)

65 x 65 x 30



0,3

€ 182

With 500A 'click and connect' shunt and connection kit

BMV-702 Black

**Battery Monitor BMV-700H**

BAM010700100



€ 700

**70 - 350 VDC**

With 500A shunt in plastic enclosure and connection kit

Suitable for systems with grounded negative only



Temperature sensor

**Temperature sensor for BMV-702**

ASS000100000



€ 18

## BATTERY ISOLATORS



Diode Isolator

**Diode Isolators with alternator energize input ("AC" models only) and compensation diode (all models)****Argodiode 80-25C 2 batteries 80A**

ARG080202000 (R)

60 x 120 x 75



0,5

€ 35

**Argodiode 80-2AC 2 batteries 80A**

ARG080201000 (R)

60 x 120 x 90



0,6

€ 51

**Argodiode 100-3AC 3 batteries 100A**

ARG100301000R

60 x 120 x 115



0,8

€ 69

**Argodiode 120-2AC 2 batteries 120A**

ARG120201020R

60 x 120 x 115



0,8

€ 77

**Argodiode 140-3AC 3 batteries 140A**

ARG140301020 (R)

60 x 120 x 150



1,1

€ 97

**Argodiode 160-2AC 2 batteries 160A**

ARG160201020

60 x 120 x 150



1,1

€ 92

**Argodiode 180-3AC 3 batteries 180A**

ARG180301020

60 x 120 x 200



1,5

€ 112



Fet Isolator

**FET Isolators with alternator energize input****Argofet 100-2 Two batteries 100A**

ARG100201020 (R)

65 x 120 x 200



1,4

€ 102

**Argofet 100-3 Three batteries 100A**

ARG100301020 (R)

65 x 120 x 200



1,4

€ 117

**Argofet 200-2 Two batteries 200A**

ARG200201020 (R)

65 x 120 x 200



1,4

€ 122

**Argofet 200-3 Three batteries 200A**

ARG200301020 (R)

65 x 120 x 200



1,4

€ 143



Cyrix-ct 12/24V-120A

**Microprocessor controlled battery combiner/isolators****Cyrix-ct 12/24V-120A intelligent combiner**

CYR010120011 (R)

46 x 46 x 80



0,11

€ 41

**Cyrix-ct 12/24V-120A Battery combiner kit**

CYR010120110R

46 x 46 x 80



0,11

€ 82

**Cyrix-ct 12/24V-230A intelligent combiner**

CYR010230010 (R)

65 x 100 x 50



0,27

€ 102

**Cyrix-i 12/24V-400A intelligent combiner**

CYR010400000

78 x 102 x 110



0,9

€ 239

**Cyrix-i 24/48V-400A intelligent combiner**

CYR020400000

78 x 102 x 110

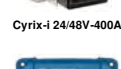


0,9

€ 239



Cyrix-ct 12/24V-230A



Cyrix-i 24/48V-400A

**Diode Battery Combiner****BCD 402 2 batteries 40A**

BCD000402000

60 x 120 x 75



0,6

€ 54

**BCD 802 2 batteries 80A**

BCD000802000

60 x 120 x 75



0,8

€ 74



Battery balancer

**Battery Protection****Battery balancer**

BBA000100100

100 x 113 x 47



0,6

€ 74

**BatteryProtect BP-40i**

BPR000040100

80 x 60 x 40



0,2

€ 75

**BatteryProtect BP-60i**

BPR000060100

80 x 60 x 40



0,2

€ 113

**BatteryProtect BP-200i**

BPR000200100

60 x 120 x 110



0,8

€ 143










Battery Protect BP200i






**SHORE CABLES**




		hxwx	€	e	kg	Ex VAT
	<b>Shore Power Cords with Shore Power Organiser Bag</b>					
	Shore Power Cord 15m 16A	SHP302501500	√			€ 134
	Shore Power Cord 25m 16A	SHP302502500	√			€ 194
	Shore Power Cord 15m 25A	SHP304001500	√			€ 184
	Shore Power Cord 25m 25A	SHP304002500	√			€ 262
	Power Inlet 16A polyamid wth cover	SHP301603000 (R)	√			€ 55
	Power Inlet 16A stainless steel with cover	SHP301602000 (R)	√			€ 80
	Power Inlet 32A stainless steel with cover	SHP303202000	√			€ 106
	Plug 16A/250Vac (2p/3w) for Power Inlet 16A	SHP301604000	√			€ 64
	Plug 32A/250Vac (2p/3w) for Power Inlet 32A	SHP303204000	√			€ 87
	Adapter Cord 16A/250V Schuko/CEE	SHP307700220	√			€ 20
	Adapter Cord 16A/250V CEE/Schuko	SHP307700260	√			€ 19
	Splitter Cord 16A/250V CEE/2xC EE	SHP307700240	√			€ 65
	Adapter Cord 16A to 32A/250V CEE/CEE	SHP307700280	√			€ 29
	Adapter Cord 32A 3 phase to single phase	SHP307700300	√			€ 39
	Adapter Cord SHP307700220					
	Adapter Cord SHP307700260					
	Splitter Cord SHP307700240					
	Adapter Cord SHP307700280					
	Adapter Cord SHP307700300					

**SOLAR CHARGE CONTROLLERS**

	BlueSolar PWM-Light 12/24V-5A	SCC010005000	70 x 133 x 34	√	0,15	€ 25
	BlueSolar PWM-Light 12/24V-10A	SCC010010000	70 x 133 x 34	√	0,15	€ 30
	BlueSolar PWM-Light 12/24V-20A	SCC010020020	70 x 133 x 34	√ ★	0,15	June € 54
	BlueSolar PWM-Light 12/24V-30A	SCC010030020	70 x 133 x 34	√ ★	0,15	June € 89
	BlueSolar PWM-Pro 12/24V-10A	SCC010010010	70 x 138 x 37	√	0,15	€ 36
	BlueSolar PWM-Pro 12/24V-20A	SCC010020110	82 x 160 x 48	√	0,3	€ 60
	BlueSolar PWM-Pro 12/24V-30A	SCC010030010	100 x 200 x 57	√	0,5	€ 95
	Remote panel for BlueSolar PWM-Pro	SCC900300000	49 x 113 x 113	√	0,21	€ 50
	Temperature sensor for BlueSolar PWM-Pro	SCC940100100		√		€ 7
	BlueSolar PWM-Pro to USB interface cable	SCC940100200		√		€ 10
	BlueSolar PWM DUO 12/24V-20A	SCC010020000	76 x 153 x 37	√	0,2	€ 122
	Remote Panel for BlueSolar DUO 12/24V-20A	SCC900200000	49 x 113 x 113	√	0,21	€ 70
	BlueSolar PWM 12/24V-10A with timer	SCC010010100	65 x 140 x 34	√	0,21	€ 36
	BlueSolar MPPT 75/15 (12/24V-15A)	SCC010015050R	100 x 113 x 40	√	0,5	€ 90
	BlueSolar MPPT 100/15 (12/24V-15A)	SCC010015200R	100 x 113 x 47	√	0,6	€ 110
	Inverting remote on-off cable	ASS030550100		√		€ 25
	VE.Direct TX digital output cable (PWM light dimming cable)	ASS030550500		√		€ 10
	BlueSolar MPPT 100/30 (12/24V-30A)	SCC010030020	130 x 186 x 70	√	1,3	€ 200
	BlueSolar MPPT 75/50 (12/24V-50A)	SCC010050000	130 x 186 x 70	√	1,3	€ 270
	BlueSolar MPPT 100/50 (12/24V-50A)	SCC010050200	130 x 186 x 70	√	1,3	€ 300
	BlueSolar MPPT 150/35 (12/24/48V-35A)	SCC010035000	130 x 186 x 70	√	1,3	€ 300
	VE.Direct non inverting remote on-off cable	ASS030550300		√		€ 25
	BlueSolar MPPT 150/70 (12/24/36/48V-70A)	SCC010070000	350 x 160 x 135	√	5	€ 650
	BlueSolar MPPT 150/85 (12/24/36/48V-85A)	SCC010085000	350 x 160 x 135	√	5	€ 730

**SOLAR CABLES**



	<b>Solar Cable (4 mm²) with pre-assembled male and female MC4 (PV-ST01) connectors</b>					
	Length 1 m	SCA000100000	√			€ 10
	Length 3 m	SCA000300000	√			€ 15
	<b>Solar Cable (6 mm²) with pre-assembled male and female MC4 (PV-ST01) connectors</b>					
	Length 1 m	SCA000100100	√			€ 10
	Length 3 m	SCA000300100	√			€ 18
	Length 5 m	SCA000500100	√			€ 27
	Length 10 m	SCA001000100	√			€ 41
	Length 20 m	SCA002000100	√			€ 76
	Solar adapter cable MC4 male to MC3 female, length 15 cm	SCA500100000				€ 7
	Solar adapter cable MC4 female to MC3 male, length 15 cm	SCA500200000				€ 7
	Solar splitter pair MC4-Y, 1x M-2F / 1xF-2M	SCA520500000				€ 26
	Solar connector pair MC4, 1x Male/1x Female	SCA520300000				€ 9
						

BATTERIES		Ex VAT			
AGM Deep Cycle (C20 capacity)	lxwxh	Handle	kg CCA @ 0°F / RES CAP @ 80°F		
 12V/90Ah AGM Battery	6V/240Ah AGM Deep Cycle Batt.	BAT406225080	320 x 176 x 247 ✓	31	€ 300
 12V/90Ah AGM Battery with threaded insert terminals	12V/8Ah AGM Deep Cycle Batt.	BAT212070080	151 x 65 x 101 ✓	2,3	€ 23
	12V/14Ah AGM Deep Cycle Batt.	BAT212120080	151 x 98 x 101 ✓	4,4	€ 41
	12V/22Ah AGM Deep Cycle Batt.	BAT212200080	181 x 77 x 167 ✓	5,8	€ 54
	12V/38Ah AGM Deep Cycle Batt.	BAT412350080	197 x 165 x 170 ✓	15	€ 128
	12V/60Ah AGM Deep Cycle Batt.	BAT412550080	229 x 138 x 227 ✓	18	400 / 90 € 147
	12V/66Ah AGM Deep Cycle Batt.	BAT412600080	258 x 166 x 235 ✓	24	440 / 100 € 202
	12V/90Ah AGM Deep Cycle Batt.	BAT412800080	350 x 167 x 183 ✓	27	550 / 145 € 215
	12V/110Ah AGM Deep Cycle Batt.	BAT412101080	330 x 171 x 220 ✓	32	700 / 190 € 273
	12V/130Ah AGM Deep Cycle Batt.	BAT412121080	410 x 176 x 227 ✓	38	800 / 230 € 321
	12V/165Ah AGM Deep Cycle Batt.	BAT412151080	485 x 172 x 240 ✓	47	1000 / 320 € 408
12V/220Ah AGM Deep Cycle Batt.	BAT412201080	522 x 238 x 240 ✓	65	1200 / 440 € 517	
<b>AGM deep cycle battery with threaded insert terminals</b>					
	12V/90Ah AGM Deep Cycle Batt. (M6)	BAT412800081	350 x 167 x 183 ✓ ★	27	550 / 145 € 215
	12V/110Ah AGM Deep Cycle Batt. (M8)	BAT412101081	330 x 171 x 220 ✓ ★	32	700 / 190 € 273
	12V/130Ah AGM Deep Cycle Batt. (M8)	BAT412121081	410 x 176 x 227 ✓ ★	38	800 / 230 € 321
	12V/165Ah AGM Deep Cycle Batt. (M8)	BAT412151081	485 x 172 x 240 ✓ ★	47	1000 / 320 € 408
	12V/220Ah AGM Deep Cycle Batt. (M8)	BAT412201081	522 x 238 x 240 ✓ ★	65	1200 / 440 € 517
<b>AGM deep cycle telecom battery with threaded insert terminals</b>					
	12V/115Ah AGM Telecom Batt. (M8)	BAT412105160	395 x 110 x 293 ✓	35	700 / 190 € 300
	12V/165Ah AGM Telecom Batt. (M8)	BAT412151160	548 x 105 x 316 ✓	49	1000 / 320 € 418
	12V/200Ah AGM Telecom Batt. (M8)	BAT412181160	546 x 125 x 323 ✓	59	1100 / 400 € 477
<b>GEL Deep Cycle (C20 capacity)</b>					
 12V/130Ah Gel Deep Cycle Batt.	12V/60Ah Gel Deep Cycle Batt.	BAT412550100	229 x 138 x 227 ✓	19	250 / 80 € 169
	12V/66Ah Gel Deep Cycle Batt.	BAT412600100	258 x 166 x 235 ✓	24	300 / 90 € 211
	12V/90Ah Gel Deep Cycle Batt.	BAT412800100	350 x 167 x 183 ✓	26	400 / 130 € 220
	12V/110Ah Gel Deep Cycle Batt.	BAT412101100	330 x 171 x 220 ✓	33	500 / 180 € 275
	12V/130Ah Gel Deep Cycle Batt.	BAT412121100	410 x 176 x 227 ✓	38	600 / 230 € 325
	12V/165Ah Gel Deep Cycle Batt.	BAT412151100	485 x 172 x 240 ✓	48	800 / 320 € 413
	12V/220Ah Gel Deep Cycle Batt.	BAT412201100	522 x 238 x 240 ✓	66	1000 / 440 € 538








CCA @ 0°F: SAE Cold Cranking Amps at 0° F / -18°C  
RES CAP @ 80°F: Reserve Capacity at 80°F / 27°C

Height includes poles

**TUBULAR PLATE BATTERIES**

GEL OPzV tubular plate 2V cells (C10 capacity)*		Ex VAT					
 GEL OPzV	4 OPzV 200	BAT702201260	103 x 206 x 398 ✓	19	€ 256		
	5 OPzV 250	BAT702251260	124 x 206 x 398 ✓	23	€ 298		
	6 OPzV 300	BAT702301260	145 x 206 x 398 ✓	28	€ 341		
	5 OPzV 350	BAT702351260	124 x 206 x 515 ✓	31	€ 361		
	6 OPzV 420	BAT702421260	145 x 206 x 515 ✓	36	€ 413		
	7 OPzV 490	BAT702491260	166 x 206 x 515 ✓	41	€ 464		
	6 OPzV 600	BAT702601260	145 x 206 x 688 ✓	49	€ 519		
	8 OPzV 800	BAT702801260	210 x 191 x 688 ✓	65	€ 714		
	10 OPzV 1000	BAT702102260	210 x 233 x 690 ✓	80	€ 836		
	12 OPzV 1200	BAT702122260	210 x 275 x 690 ✓	93	€ 964		
	12 OPzV 1500	BAT702152260	210 x 275 x 840 ✓	115	€ 1.146		
	16 OPzV 2000	BAT702202260	215 x 400 x 815 ✓	155	€ 1.556		
	20 OPzV 2500	BAT702252260	215 x 490 x 815 ✓	200	€ 1.949		
	24 OPzV 3000	BAT702302260	215 x 580 x 815 ✓	235	€ 2.254		
*Minimum order quantity 12 cells per model							
<b>OPzS Solar batteries</b>							
 Flooded OPzS	Model	C120	C10				
	OpzS Solar 910	910Ah	640Ah	BAT802601280	145 x 206 x 711 ✓	50	€ 400
	OpzS Solar 1210	1210Ah	853Ah	BAT802801280	210 x 191 x 711 ✓	65	€ 539
	OpzS Solar 1520	1520Ah	1065Ah	BAT802102280	210 x 233 x 711 ✓	80	€ 630
	OpzS Solar 1830	1830Ah	1278Ah	BAT802122280	210 x 275 x 711 ✓	93	€ 729
	OpzS Solar 2280	2280Ah	1613Ah	BAT802152280	210 x 275 x 861 ✓	119	€ 889
	OpzS Solar 3040	3040Ah	2143Ah	BAT802202280	212 x 397 x 837 ✓	160	€ 1.261
	OpzS Solar 3800	3800Ah	2675Ah	BAT802252280	212 x 487 x 837 ✓	200	€ 1.533
	OpzS Solar 4560	4560Ah	3208Ah	BAT802302280	212 x 576 x 837 ✓	240	€ 1.725
	Standard delivery: filled with electrolyte. Optional: dry charged (5% surcharge, acid not included in the delivery)						
Height includes poles							



SOLAR PANELS		€	cells	kg	Ex VAT		
 Monocrystalline panel	30W-12V Mono 430x545x25mm series 3a	SPM010301200	√	36	2.5	€ 63	
	50W-12V Mono 645x540x35mm series 1b	SPM010501210	√	36	5.2	€ 102	
	80W-12V Mono 1005x540x35mm series 1b	SPM010801210	√	36	7.5	€ 160	
	100W-12V Mono 1195x545x35mm series 3a	SPM031001200	√	36	8.9	€ 195	
	130W-12V Mono 1480x673x35mm series 3a	SPM031301200	√	36	11.5	€ 248	
	190W-24V Mono 1580x808x35mm series 1b	SPM011902400	√	72	14.5	€ 361	
	300W-24V Mono 1956x992x50mm series 1b	SPM013002400	√	72	23.5	€ 513	
 Polycrystalline panel	20W-12V Poly 460x360x25mm series 2a	SPP020201200	√	36	2.2	€ 50	
	30W-12V Poly 410x670x25mm series 3a	SPP030301200	√	36	3.5	€ 58	
	40W-12V Poly 670x475x25mm series 2a	SPP020401200	√	36	4.5	€ 72	
	50W-12V Poly 540x670x25mm series 3a	SPP030501200	√	36	5.7	€ 86	
	75W-12V Poly 780x670x25mm series 2a	SPP020751200	√	36	7.9	€ 129	
	80W-12V Poly 915x670x35mm series 1b	SPP010801210	√	36	8.0	€ 138	
	100W-12V Poly 1015x670x35mm series 2a	SPP021001200	√	36	9.0	€ 173	
	140W-12V Poly 1480x670x35mm series 2a	SPP021401200	√	36	15.0	€ 241	
	190W-16V Poly 1324x989x35mm series 2a	SPP021902400	√	48	17.2	€ 319	
	250W-20V Poly 1650x992x40mm series 3a	SPP032502400	√	60	20.3	€ 349	
	280W-24V Poly 1956x992x50mm series 1a	SPP012802400	√	72	24.0	€ 435	
	300W-24V Poly 1960x989x40mm series 2a	SPP023002400	√	72	29.0	€ 465	
	LITHIUM (LiFePO4) BATTERIES		hwxwd				
	 Lithium battery 24/180	Lithium Battery 24V/180Ah 4,75kWh	BAT524181200	360 x 195 x 625	√	55	€ 4.939
Lynx Ion + Shunt 350A		LYN040351000	190 x 180 x 80	√	2	€ 1.760	
Lynx Ion + Shunt 600A		LYN040601000	190 x 180 x 80	√	2	€ 1.980	
	Ion Control	LYN010100100	113 x 111 x 37	√	0,3	€ 550	
 Lithium battery 12,8/90 - BMS	Lithium battery 12,8V/60Ah - CB	BAT512600500	235 x 293 x 139	√	12	€ 782	
	Lithium battery 12,8V/90Ah - CB	BAT512900500	249 x 293 x 168	√	16	€ 1.100	
	Lithium battery 12,8V/160Ah - CB	BAT512161500	320 x 338 x 233	√	33	€ 1.804	
	Lithium battery 12,8V/200Ah - CB	BAT512201500	295 x 425 x 274	√	42	€ 2.427	
	Lithium battery 12,8V/60Ah - BMS	BAT512600400	235 x 293 x 139	√	12	€ 831	
	Lithium battery 12,8V/90Ah - BMS	BAT512900400	249 x 293 x 168	√	16	€ 1.158	
	Lithium battery 12,8V/160Ah - BMS	BAT512161400	320 x 338 x 233	√	33	€ 1.885	
	Lithium battery 12,8V/200Ah - BMS	BAT512201400	295 x 425 x 274	√	42	€ 2.528	
 Li-ion Battery Tower	Li-ion Battery Tower	BAC23025600	882 x 300 x 308	√	5	€ 493	
	Fits up to four Lithium batteries 60Ah or 90Ah and a VE.Bus BMS						
	Includes wiring for 25,6V and 51,2V						
	(VE.Bus BMS and batteries not included)						
	Battery Management System VE.Bus BMS	BMS300200000	30 x 105 x 72	√	0,09	€ 100	
	(includes AC detector)						
	Inverting remote on-off cable	ASS030550100		√		€ 25	
	Non inverting remote on-off cable	ASS030550200		√		€ 25	
	VE.Bus BMS to BMS 12-200 alternator control cable	ASS030510100		√		€ 35	
	Skylla-i remote on-off cable	ASS030550400		√		€ 35	
 VE.Bus BMS	Cyrix-Li-load 12/24V-120A	CYR010120450	46 x 46 x 80	√	0,11	€ 60	
	Cyrix-Li-load 24/48V-120A	CYR020120450	46 x 46 x 80	√	0,11	€ 60	
	Cyrix-Li-Charge 12/24V-120A	CYR010120430	46 x 46 x 80	√	0,11	€ 70	
	Cyrix-Li-Charge 24/48V-120A	CYR020120430	46 x 46 x 80	√	0,11	€ 70	
	Cyrix-Li-ct 12/24V-120A combiner	CYR010120410	46 x 46 x 80	√	0,11	€ 70	
 BMS 12/200	Cyrix-Li-load 12/24V-230A	CYR010230450	65 x 100 x 50	√	0,27	€ 150	
	Cyrix-Li-load 24/48V-230A	CYR020230450	65 x 100 x 50	√	0,27	€ 150	
	Cyrix-Li-Charge 12/24V-230A	CYR010230430	65 x 100 x 50	√	0,27	€ 150	
	Cyrix-Li-Charge 24/48V-230A	CYR020230430	65 x 100 x 50	√	0,27	€ 150	
	Cyrix-Li-ct 12/24V-230A combiner	CYR010230410	65 x 100 x 50	√	0,27	€ 150	
	Battery Management System 12/200	BMS012201000	65 x 120 x 260	√	1,8	€ 242	
	Cables with M8 circular connector (for Li-ion batteries)						
	Male to Female 3 pole 1 m (bag of 2)	ASS030560100		√		€ 22	
	Male to Female 3 pole 2 m (bag of 2)	ASS030560200		√		€ 25	
	Male to Female 3 pole 3 m (bag of 2)	ASS030560300		√		€ 31	
	Male to Female 3 pole 5 m (bag of 2)	ASS030560500		√		€ 36	
 Impulse Peak Power Pack	Impulse Peak Power Pack 12,8V/8,8Ah 113Wh	5.40.112.1401	200 x 200 x 105	√	1,5	€ 304	

APPENDIX	12V AND 24V INVERTERS: ALTERNATIVE OUTLETS			Ex VAT	
	230VAC/50Hz Sinewave	hxwx	kg		
	Phoenix 12/180 IEC outlet	PIN012181100	72 x 132 x 200	2,7	€ 107
	Phoenix 12/180 Schuko outlet	PIN012181200	72 x 132 x 200	2,7	€ 107
	Phoenix 12/180 AU/NZ outlet (AS/NZS 3112)	PIN012181300	72 x 132 x 200	2,7	€ 107
	Phoenix 12/180 UK outlet (BS 1363)	PIN012181400	72 x 132 x 200	2,7	€ 107
	Phoenix 12/350 IEC outlet	PIN012351100	72 x 155 x 237	3,5	€ 138
	Phoenix 12/350 Schuko outlet	PIN012351200	72 x 155 x 237	3,5	€ 138
	Phoenix 12/350 AU/NZ outlet (AS/NZS 3112)	PIN012351300	72 x 155 x 237	3,5	€ 138
	Phoenix 12/350 UK outlet (BS 1363)	PIN012351400	72 x 155 x 237	3,5	€ 138
	Phoenix 12/800 IEC outlet	PIN128010100	104 x 194 x 305	6,5	€ 345
	Phoenix 12/800 Schuko outlet	PIN128010200	104 x 194 x 305	6,5	€ 345
	Phoenix 12/800 AU/NZ outlet (AS/NZS 3112)	PIN128010300	104 x 194 x 305	6,5	€ 345
	Phoenix 12/800 UK outlet (BS 1363)	PIN128010400	104 x 194 x 305	6,5	€ 345
	Phoenix 12/1200 IEC outlet	PIN121220100	104 x 194 x 305	8,5	€ 505
	Phoenix 12/1200 Schuko outlet	PIN121220200	104 x 194 x 305	8,5	€ 505
	Phoenix 12/1200 AU/NZ outlet (AS/NZS 3112)	PIN121220300	104 x 194 x 305	8,5	€ 505
	Phoenix 12/1200 UK outlet (BS 1363)	PIN121220400	104 x 194 x 305	8,5	€ 505
	Phoenix 24/180 IEC outlet	PIN024181100	72 x 132 x 200	2,7	€ 107
	Phoenix 24/180 Schuko outlet	PIN024181200	72 x 132 x 200	2,7	€ 107
	Phoenix 24/180 AU/NZ outlet (AS/NZS 3112)	PIN024181300	72 x 132 x 200	2,7	€ 107
	Phoenix 24/180 UK outlet (BS 1363)	PIN024181400	72 x 132 x 200	2,7	€ 107
	Phoenix 24/350 IEC outlet	PIN024351100	72 x 155 x 237	3,5	€ 138
	Phoenix 24/350 Schuko outlet	PIN024351200	72 x 155 x 237	3,5	€ 138
	Phoenix 24/350 AU/NZ outlet (AS/NZS 3112)	PIN024351300	72 x 155 x 237	3,5	€ 138
	Phoenix 24/350 UK outlet (BS 1363)	PIN024351400	72 x 155 x 237	3,5	€ 138
	Phoenix 24/800 IEC outlet	PIN248010100	104 x 194 x 305	6,5	€ 345
	Phoenix 24/800 Schuko outlet	PIN248010200	104 x 194 x 305	6,5	€ 345
	Phoenix 24/800 AU/NZ outlet (AS/NZS 3112)	PIN248010300	104 x 194 x 305	6,5	€ 345
	Phoenix 24/800 UK outlet (BS 1363)	PIN248010400	104 x 194 x 305	6,5	€ 345
	Phoenix 24/1200 IEC outlet	PIN241220100	104 x 194 x 305	8,5	€ 505
	Phoenix 24/1200 Schuko outlet	PIN241220200	104 x 194 x 305	8,5	€ 505
	Phoenix 24/1200 AU/NZ outlet (AS/NZS 3112)	PIN241220300	104 x 194 x 305	8,5	€ 505
	Phoenix 24/1200 UK outlet (BS 1363)	PIN241220400	104 x 194 x 305	8,5	€ 505

#### Prices may change without notice

These recommended prices for end users are a guideline only.  
Prices can vary dependent on local conditions

All prices are per unit  
All prices are Ex VAT  
All prices are Ex Works Rotterdam

**Victron Energy B.V.**  
De Paal 35  
1351 JG Almere-Haven  
The Netherlands

All our quotations, sales, deliveries and services are subject to our General conditions of Delivery and Sale which are deposited at the Lelystad Chamber of Commerce, registration nr. 39059013

T: +31 (0)36 5359700  
F: +31 (0)36 5359740

[www.victronenergy.com](http://www.victronenergy.com)

#### Warranty to end users

Batteries: 2 year limited warranty  
All other products: 5 year limited warranty



Victron Energy B.V. / De Paal 35  
1351 JG Almere / The Netherlands  
Phone: +31 (0)36 535 97 00  
Fax: +31 (0)36 535 97 40  
e-mail: [sales@victronenergy.com](mailto:sales@victronenergy.com)  
[www.victronenergy.com](http://www.victronenergy.com)

SAL062100020  
2015-04