

**List of VICTRON - Inverter only - PHOENIX**

Model	Battery Voltage (V)	Recommended Battery Capacity (Ah)	AC Output Power (W / VA)	Peak Power (W)	Output AC Voltage (V)	DC Circuit Breaker (A)	DC Cable Size (0-1.5m / 1.5-3m) (mm <sup>2</sup> )	AC-Out Cable Size (mm <sup>2</sup> )	AC-Out Circuit Breaker (A)**	RCD Type A	Stock Code
Phoenix 12/250 VE.Direct	12 (9.2-17)	Min 30	200 / 250	400	230 / 120	2*30 – Internal*	4 / 6	1.5	6 - Type B / C	30 mA	64900-225A
Phoenix 24/250 VE.Direct	24 (18.4-34)	Min 20	200 / 250	400	230 / 120	30 – Internal*	2.5 / 4	1.5	6 - Type B / C	30 mA	64900-230A
Phoenix 48/250 VE.Direct	48 (36.8-62)	Min 10	200 / 250	400	230 / 120	25 – Internal*	1.5 / 2.5	1.5	6 - Type B / C	30 mA	64900-235A
Phoenix 12/375 VE.Direct	12 (9.2-17)	Min 40	300 / 375	700	230 / 120	2*40 – Internal*	6 / 10	1.5	6 - Type B / C	30 mA	64900-226A
Phoenix 24/375 VE.Direct	24 (18.4-34)	Min 30	300 / 375	700	230 / 120	40 – Internal*	4 / 6	1.5	6 - Type B / C	30 mA	64900-231A
Phoenix 48/375 VE.Direct	48 (36.8-62)	Min 15	300 / 375	700	230 / 120	25 – Internal*	2.5 / 4	1.5	6 - Type B / C	30 mA	64900-236A
Phoenix 48/375 VE.Direct	48 (36.8-62)	Min 15	300 / 375	700	230 / 120	25 – Internal*	2.5 / 4	1.5	6 - Type B / C	30 mA	64900-236
Phoenix 12/500 VE.Direct	12 (9.2-17)	Min 60	400 / 500	900	230 / 120	3*35 – Internal*	6 / 10	1.5	6 - Type C	30 mA	64900-227A
Phoenix 24/500 VE.Direct	24 (18.4-34)	Min 40	400 / 500	900	230 / 120	2*25 – Internal*	6 / 10	1.5	6 - Type C	30 mA	64900-232A
Phoenix 48/500 VE.Direct	48 (36.8-62)	Min 20	400 / 500	900	230 / 120	30 – Internal*	4 / 6	1.5	6 - Type C	30 mA	64900-237A
Phoenix 12/800 VE.Direct	12 (9.2-17)	Min 100	650 / 800	1500	230 / 120	150 – Internal*	16 / 25	1.5	6 - Type C	30 mA	64900-228A
Phoenix 24/800 VE.Direct	24 (18.4-34)	Min 50	650 / 800	1500	230 / 120	80 – Internal*	6 / 10	1.5	6 - Type C	30 mA	64900-233A
Phoenix 48/800 VE.Direct	48 (36.8-62)	Min 30	650 / 800	1500	230 / 120	40 – Internal*	4 / 6	1.5	6 - Type C	30 mA	64900-238A
Phoenix 12/1200 VE.Direct	12 (9.2-17)	Min 150	1000 / 1200	2400	230 / 120	200 – Internal*	25 / 35	2.5	10 - Type C	30 mA	64900-229B
Phoenix 24/1200 VE.Direct	24 (18.4-34)	Min 60	1000 / 1200	2400	230 / 120	125 – Internal*	10 / 16	2.5	10 - Type C	30 mA	64900-451A
Phoenix 12/1200 Compact	12 (9.5-17)	150-700	1000 / 1200	2400	230	200	50 / 100	1.5	6 - Type C	30 mA	65000-632
Phoenix 12/1600 Compact	12 (9.5-17)	200-700	1300 / 1600	3000	230	250	70 / 140	2.5	10 - Type C	30 mA	64900-218
Phoenix 12/1600 Compact	12 (9.5-17)	200-700	1300 / 1600	3000	230	250	70 / 140	2.5	10 - Type C	30 mA	64900-218A
Phoenix 24/1600 Compact	24 (19-33)	100-400	1300 / 1600	3000	230	125	35 / 70	2.5	10 - Type C	30 mA	64900-222A
Phoenix 12/2000 Compact	12 (9.5-17)	350-1000	1600 / 2000	4000	230	250	70	2.5	16 - Type C	30 mA	64900-219
Phoenix 24/2000 Compact	24 (19-33)	200-500	1600 / 2000	4000	230	200	50	2.5	16 - Type C	30 mA	65000-634
Phoenix 48/1200 Standard	48 (36.8-62)	Min 30	1000 / 1200	2400	230 / 110	100 – Internal*	6 / 10 ***	2.5	10 - Type C	30 mA	64900-239
Phoenix 12/3000 Standard	12 (9.5-17)	400-1200	2400 / 3000	6000	230	400	90 / 120***	4	20 - Type C	30 mA	64900-220
Phoenix 24/3000 Standard	24 (19-33)	200-700	2400 / 3000	6000	230	300	50 / 90***	4	20 - Type C	30 mA	64900-223
Phoenix 48/3000 Standard	48 (38-66)	100-400	2400 / 3000	6000	230	125	35 / 70***	4	20 - Type C	30 mA	65001-980
Phoenix 24/5000 Standard	24 (19-33)	400-1400	4000 / 5000	10000	230	400	2*50 / 2*90***	4	32 - Type C	30 mA	64900-224
Phoenix 48/5000 Standard	48 (38-66)	200-800	4000 / 5000	10000	230	200	1*70 / 2*70***	4	32 - Type C	30 mA	64900-240
Phoenix 12/1600 Smart	12 (9.3-17)	300-800	1300 / 1600	3000	230	250	70 / --	2.5	10 - Type C	30 mA	64900-545A
Phoenix 24/1600 Smart	24 (18.6-34)	150-400	1300 / 1600	3000	230	125	35 / 70	2.5	10 - Type C	30 mA	64900-547A
Phoenix 48/1600 Smart	48 (37.2-68)	75-200	1300 / 1600	3000	230	60	16 / 25	2.5	10 - Type C	30 mA	64900-549A
Phoenix 12/2000 Smart	12 (9.3-17)	350-1000	1600 / 2000	4000	230	300	70 / --	2.5	16 - Type C	30 mA	64900-546A
Phoenix 24/2000 Smart	24 (18.6-34)	200-500	1600 / 2000	4000	230	150	50 / 95	2.5	16 - Type C	30 mA	64900-548A
Phoenix 48/2000 Smart	48 (37.2-68)	100-250	1600 / 2000	4000	230	80	25 / 50	2.5	16 - Type C	30 mA	64900-550
Phoenix 48/2000 Smart	48 (37.2-68)	100-250	1600 / 2000	4000	230	80	25 / 50	2.5	16 - Type C	30 mA	64900-550A
Phoenix 12/3000 Smart	12 (9.3-17)	400-1200	2400 / 3000	6000	230	400	90 / 2*70	4	20 - Type C	30 mA	64900-554
Phoenix 24/3000 Smart	24 (18.6-34)	200-700	2400 / 3000	6000	230	250	50 / 2*50	4	20 - Type C	30 mA	64900-555
Phoenix 48/3000 Smart	48 (37.2-68)	100-400	2400 / 3000	6000	230	125	35 / 2*35	4	20 - Type C	30 mA	64900-556
Phoenix 24/5000 Smart	24 (18.6-34)	300-1500	4000 / 5000	10000	230	400	90 / 2*95	6	32 - Type C	30 mA	64900-559A
Phoenix 48/5000 Smart	48 (37.2-68)	150-700	4000 / 5000	10000	230	200	70 / 2*70	6	32 - Type C	30 mA	64900-560

\* If the DC cable length is increased to more than 1,5m, an additional fuse or DC circuit breaker must be inserted close to the battery.

\*\* You can use a separate MCB + RCD, or a single RCBO

\*\*\* (0-5) / (5-10)m

### Table Information

Item	Description
<b>Battery Voltage (V)</b>	The DC voltage the inverter is designed to work with (e.g., 12V, 24V, 48V).
<b>Recommended Battery Capacity (Ah)</b>	The ideal battery size (Ah) to ensure proper inverter performance.
<b>AC Output Power (W / VA)</b>	The continuous power the inverter can supply to loads (real power in W, apparent power in VA).
<b>Peak Power (W)</b>	The maximum short-term surge power the inverter can deliver (for motor starts, etc.).
<b>Output AC Voltage (V)</b>	The AC voltage produced by the inverter (e.g., 230V).
<b>DC Circuit Breaker (A)</b>	The required breaker size on the battery side to protect the inverter DC input.
<b>DC Cable Size (mm<sup>2</sup>)</b>	The cross-section of the DC cables needed between battery and inverter.
<b>AC-Out Cable Size</b>	The cable size required for the AC output wiring.
<b>AC-Out Circuit Breaker</b>	The MCB rating needed on the AC output side for protection.
<b>RCD Type A</b>	The residual-current device type required for protection against electric shock (Type A detects AC and pulsating DC faults).

**List of VICTRON Inverter/Charger – MultiPlus**

Model	Battery Voltage (V)	Recommended Battery Capacity (Ah)	AC Output Power (W/VA)	Peak Power (W)	Charge Current (A)	DC Cable Size (1.5-5) / (5-10) m (mm <sup>2</sup> )	DC Circuit Breaker (A)	AC-IN Cable Size (mm <sup>2</sup> )	AC-IN Circuit Breaker (A)	AC-OUT Cable Size (mm <sup>2</sup> )	AC-OUT Circuit Breaker (A)**	RCD	Stock Code
MultiPlus 12/500/20-16	12	60 - 300	430 / 500	900	20	16 / -	Internal 125	2.5	16 type C	2.5	16 type C	30 mA	64900-241A
MultiPlus 24/500/10-16	24	30 - 150	430 / 500	900	10	10 / -	Internal 60	2.5	16 type C	2.5	16 type C	30 mA	64900-244A
MultiPlus 48/500/6-16	48	20 - 100	430 / 500	900	6	6 / -	Internal 30	2.5	16 type C	2.5	16 type C	30 mA	64900-247A
MultiPlus 12/800/35	12	100 - 400	700 / 800	1600	35	25 / -	Internal 150	2.5	16 type C	2.5	16 type C	30 mA	64900-242
MultiPlus 24/ 800/16	24	40 - 200	700 / 800	1600	16	16 / -	Internal 80	2.5	16 type C	2.5	16 type C	30 mA	64900-245
MultiPlus 48/ 800/9	48	25 - 150	700 / 800	1600	9	10 / -	Internal 40	2.5	16 type C	2.5	16 type C	30 mA	64900-248
MultiPlus 12/1200/50	12	150 - 700	1000 / 1200	2400	50	35 / -	Internal 200	2.5	16 type C	2.5	16 type C	30 mA	64900-243
MultiPlus 24/1200/25	24	70 - 400	1000 / 1200	2400	25	25 / -	Internal 100	2.5	16 type C	2.5	16 type C	30 mA	64900-246
MultiPlus 48/1200/13	48	35 - 200	1000 / 1200	2400	13	10 / -	Internal 50	2.5	16 type C	2.5	16 type C	30 mA	64900-249
MultiPlus 12/1600/70-16	12	200 - 700	1300 / 1600	2800	70	50 / -	Internal 200	2.5	16 type C	2.5	16 type C	30 mA	64900-453A
MultiPlus 24/1600/40-16	24	100 - 400	1300 / 1600	2800	40	25 / -	Internal 125	2.5	16 type C	2.5	16 type C	30 mA	64900-456A
MultiPlus 48/1600/20-16	48	40 - 200	1300 / 1600	2800	20	16 / -	Internal 60	2.5	16 type C	2.5	16 type C	30 mA	64900-2493
MultiPlus 12/2000/80-32	12	350 - 1000	1600 / 2000	3500	80	70 / 95	300	Max 6*	Max 32 type C*	Max 6	Max 40 type C	30 mA	64900-688
MultiPlus 24/2000/50-32	24	200 - 500	1600 / 2000	3500	50	35 / 70	200	Max 6*	Max 32 type C*	Max 6	Max 40 type C	30 mA	64900-689
MultiPlus 48/2000/25-32	48	100 - 250	1600 / 2000	3500	25	25 / 50	100	Max 6*	Max 32 type C*	Max 6	Max 40 type C	30 mA	64900-710
MultiPlus 12/3000/120-16	12	400 - 1200	2400 / 3000	6000	120	2*50 / 2*70	400	Max 2.5*	Max 16 type C*	Max 6	Max 32 type A	30 mA	64900-454A
MultiPlus 12/3000/120-50	12	400 - 1200	2400 / 3000	6000	120	2*50 / 2*70	400	Max 10*	Max 50 type C*	Max 16	Max 63 type A	30 mA	64900-243B
MultiPlus 24/3000/70-16	24	200 - 700	2400 / 3000	6000	70	50 / 2*50	300	Max 2.5*	Max 16 type C*	Max 6	Max 32 type A	30 mA	64900-458A
MultiPlus 24/3000/70-50	24	200 - 700	2400 / 3000	6000	70	50 / 2*50	300	Max 10*	Max 50 type C*	Max 16	Max 63 type A	30 mA	64900-421B
MultiPlus 48/3000/35-16	48	100 - 400	2400 / 3000	6000	35	35 / 2*35	125	Max 2.5*	Max 16 type C*	Max 6	Max 32 type A	30 mA	64900-459
MultiPlus 48/3000/35-50	48	100 - 400	2400 / 3000	6000	35	35 / 2*35	125	Max 10*	Max 50 type C*	Max 16	Max 63 type A	30 mA	64900-2491
MultiPlus 24/5000/120	24	400 - 1400	4000 / 5000	10000	120	2*50 / 2*90	400	Max 50*	Max 100 type C*	Max 70	Max 125 type C	30 mA	64900-422
MultiPlus 48/5000/70-100	48	200 - 800	4000 / 5000	10000	70	70 / 2*70	200	Max 50*	Max 100 type C*	Max 70	Max 125 type C	30 mA	64900-431
<b>MultiPlus Compact 12/800/35</b>	12	100-400	700 / 800	1600	35	35 / 70	150	2.5	16 type C	2.5	16 type C	30 mA	65000-212A
MultiPlus Compact 24/ 800/16	24	40-200	700 / 800	1600	16	16 / 35	80	2.5	16 type C	2.5	16 type C	30 mA	64900-250
MultiPlus Compact12/1200/50-16	12	150-700	1000 / 1200	2400	50	50 / 100	200	2.5	16 type C	2.5	16 type C	30 mA	64900-452A
MultiPlus Compact24/1200/25-16	24	40-400	1000 / 1200	2400	25	25 / 50	100	2.5	16 type C	2.5	16 type C	30 mA	64900-455A
MultiPlus Compact12/1600/70-16	12	200-700	1300 / 1600	2800	70	70 / 140	250	2.5	16 type C	2.5	16 type C	30 mA	64900-453
MultiPlus Compact12/1600/70-16	12	200-700	1300 / 1600	2800	70	70 /140	250	2.5	16 type C	2.5	16 type C	30 mA	64900-453B
MultiPlus Compact24/1600/40-16	24	100-400	1300 / 1600	2800	40	35 / 70	125	2.5	16 type C	2.5	16 type C	30 mA	64900-456B
MultiPlus Compact 12/2000/80	12	350-1000	1600 / 2000	3500	80	70 / --	300	Max 6*	Max 32 type C*	Max 6	Max 40 type C	30 mA	64900-243A
MultiPlus Compact24/2000/50-30	24	200-500	1600 / 2000	3500	50	35 / --	200	Max 6*	Max 32 type C*	Max 6	Max 40 type C	30 mA	64900-457

\*If the input AC supply is rated at a lower value, the fuse or magnetic circuit breaker should be down sized accordingly.

\*\*You can use a separate MCB + RCD, or a single RCBO

Item	Description
<b>Battery Voltage (V)</b>	The DC voltage of the connected battery bank (e.g., 12V, 24V, 48V). Determines inverter operation and charging.
<b>Recommended Battery Capacity (Ah)</b>	The ideal battery size (Ah) to ensure proper inverter performance.
<b>AC Output Power (W / VA)</b>	The continuous power the inverter can supply to loads (real power in W, apparent power in VA).
<b>Peak Power (W)</b>	The maximum short-term surge power the inverter can deliver (for motor starts, etc.).
<b>Charge Current (A)</b>	Maximum current the inverter/charger can supply to recharge the battery bank safely.
<b>DC Cable Size (mm<sup>2</sup>)</b>	Recommended cross-sectional area of cables from the battery to inverter for safe current flow; often given for short (1.5–5 m) and longer (5–10 m).
<b>DC Circuit Breaker (A)</b>	The required breaker size on the battery side to protect the inverter DC input.
<b>AC-In Cable Size (mm<sup>2</sup>)</b>	Size of AC wiring from the grid or generator to the inverter input, rated for max AC input current.
<b>AC-IN Circuit Breaker</b>	Protective breaker for the AC input line to the inverter, preventing overload or short circuits.
<b>AC-Out Cable Size</b>	Size of AC output cable from inverter to load; must handle continuous AC output current safely.
<b>AC-Out Circuit Breaker</b>	The MCB rating needed on the AC output side for protection.
<b>RCD</b>	Residual Current Device type (e.g., Type A); protects against earth faults or leakage currents to reduce electric shock risk.

**List of VICTRON Inverter/Charger (Hybrid) – MultiPlusII & Quattro**

Model	Battery Voltage (V)	Recommended Battery Capacity (Ah)	AC Output Power (W/VA)	Peak Power (W)	Charge Current (A)	DC Cable Size (0-5) / (5-10) m (mm <sup>2</sup> )	DC Fuse (A)	AC-IN Cable Size (mm <sup>2</sup> )	AC-IN Circuit Breaker (A)	AC-OUT Cable Size (mm <sup>2</sup> )	AC-OUT Circuit Breaker*** (A)	RCD***	Stock Code
EasyPlus 12/1600/70	12	200 - 700	1300 / 1600	3000	70	70 / 140	250	2.5	16	2.5	Max 16	30 mA-type A	64900-251
<b>Multiplus II 12/3000/120-32</b>	12	400 - 1200	2400 / 3000	5500	120	2*50 / 2*70	400	Max 10	Max 32	Max 16	Max 50	30 mA-type A	64900-685
Multiplus II 24/3000/70-32	24	200 - 700	2400 / 3000	5500	70	50 / 95	300	Max 10	Max 32	Max 16	Max 50	30 mA-type A	64900-421A
Multiplus II 48/3000/35-32*	48	100 - 400	2400 / 3000	5500	35	35 / 70	125	Max 10	Max 32	Max 16	Max 50	30 mA-type A	64900-432A
Multiplus II 12/5000/220-50A	12	600 - 2400	4000 / 5000	9000	220	2*95 / 2*150	600	Max 16	Max 50	Max 35	Max 80	30 mA-type A	64900-660
Multiplus II 12/5000/220-50A	12	600 - 2400	4000 / 5000	9000	220	2*95 / 2*150	600	Max 16	Max 50	Max 35	Max 80	30 mA-type A	64900-660A
Multiplus II 24/5000/120-50	24	400 - 1400	4000 / 5000	9000	120	2*50 / 2*90	400	Max 16	Max 50	Max 35	Max 80	30 mA-type A	64900-422A
Multiplus II 48/5000/70-50*	48	200 - 800	4000 / 5000	9000	70	70 / 2*70	200	Max 16	Max 50	Max 35	Max 80	30 mA-type A	64900-431A
MultiplusII 48/8000/110-100*	48	200 - 800	6400 / 8000	15000	110	2*50 / 2*70	300	Max 50	Max 100	Max 70	Max 125	30 mA-type A	64900-686
MultiplusII 48/10000/140-100*	48	250 - 1000	8000 / 10000	18000	140	2*50 / 2*70	400	Max 50	Max 100	Max 70	Max 125	30 mA-type A	64900-687
MultiplusII 48/15000/200-100*	48	300 - 1200	12000 / 15000	27000	200	2*95 / 2*150	600	Max 50	Max 100	Max 70	Max 125	30 mA-type A	64900-695
Multiplus II 24/3000/70-32	24	200 - 700	2400 / 3000	5500	70	50 / 95	300	Max 10	Max 32	Max 16	Max 50	30 mA-type A	64900-421C
MultiplusII 48/3000/35-32GX*	48	100 - 400	2400 / 3000	5500	35	35 / 70	125	Max 10	Max 32	Max 16	Max 50	30 mA-type A	64900-432GX
MultiplusII 48/5000/70-50GX*	48	200 - 800	4000 / 5000	9000	70	70 / 2*70	200	Max 16	Max 50	Max 35	Max 80	30 mA-type A	64900-431GX
<b>Quattro 12/3000/120</b>	12	400 - 1200	2400 / 3000	6000	120	2*50 / 2*70	400	Max 16	Max 50/50**	Max 16 / 4	Max 63/25	30 mA-type A	64900-252
Quattro 12/5000/220	12	800 - 2400	4000 / 5000	10000	220	2*120 / --	800	Max 50/50	Max 100/100**	Max 70 / 16	Max 125/50	30 mA-type A	64900-253
Quattro 24/5000/120	24	400 - 1400	4000 / 5000	10000	120	2*50 / 2*95	400	Max 50/50	Max 100/100**	Max 70 / 16	Max 125/50	30 mA-type A	64900-255
Quattro 24/5000/120	24	400 - 1400	4000 / 5000	10000	120	2*50 / 2*95	400	Max 50/50	Max 100/100**	Max 70 / 16	Max 125/50	30 mA-type A	64900-255A
Quattro 48/5000/70-50/50	48	200 - 800	4000 / 5000	10000	70	70 / 2*70	200	Max 50/50	Max 100/100**	Max 70 / 16	Max 125/50	30 mA-type A	64900-460A
Quattro 24/8000/200	24	400 - 1400	6400 / 8000	16000	200	2*70 / 2*120	500	Max 50/50	Max 100/100**	Max 70 / 16	Max 125/50	30 mA-type A	64900-256
Quattro 48/8000/110	48	200 - 800	6400 / 8000	16000	110	2*50 / 2*95	300	Max 50/50	Max 100/100**	Max 95 / 16	Max 160/50	30 mA-type A	64900-450
Quattro 48/10000/140	48	250 - 1000	8000 / 10000	20000	140	2*50 / 2*95	400	Max 50/50	Max 100/100**	Max 95 / 16	Max 160/50	30 mA-type A	64900-461
Quattro 48/15000/200	48	400 - 1500	12000 / 15000	25000	200	2*95 / 2*150	600	Max 50/50	Max 100/100**	Max 95 / 16	Max 160/50	30 mA-type A	64900-462
Quattro II 24/5000/120	24	400 - 1400	4000 / 5000	9000	120	2*50 / 2*95	400	Max 16/16	Max 50/50**	Max 35/16	Max 80/50	30 mA-type A	64900-255A
Quattro II 48/5000/70-50	48	200 - 800	4000 / 5000	9000	70	70 / 2*70	200	Max 16/16	Max 50/50**	Max 35/16	Max 80/50	30 mA-type A	64900-460A

\* CEC APPROVED

\*\*IT HAS TWO INPUTS.

\*\*\*You can use a separate MCB + RCD, or a single RCBO

Item	Description
<b>Battery Voltage (V)</b>	The DC voltage of the connected battery bank (e.g., 12V, 24V, 48V). Determines inverter operation and charging.
<b>Recommended Battery Capacity (Ah)</b>	The ideal battery size (Ah) to ensure proper inverter performance.
<b>AC Output Power (W / VA)</b>	The continuous power the inverter can supply to loads (real power in W, apparent power in VA).
<b>Peak Power (W)</b>	The maximum short-term surge power the inverter can deliver (for motor starts, etc.).
<b>Charge Current (A)</b>	Maximum current the inverter/charger can supply to recharge the battery bank safely.
<b>DC Cable Size (mm<sup>2</sup>)</b>	Recommended cross-sectional area of cables from the battery to inverter for safe current flow; often given for short (1.5–5 m) and longer (5–10 m).
<b>DC Circuit Breaker (A)</b>	The required breaker size on the battery side to protect the inverter DC input.
<b>AC-In Cable Size (mm<sup>2</sup>)</b>	Size of AC wiring from the grid or generator to the inverter input, rated for max AC input current.
<b>AC-IN Circuit Breaker</b>	Protective breaker for the AC input line to the inverter, preventing overload or short circuits.
<b>AC-Out Cable Size</b>	Size of AC output cable from inverter to load; must handle continuous AC output current safely.
<b>AC-Out Circuit Breaker</b>	The MCB rating needed on the AC output side for protection.
<b>RCD</b>	Residual Current Device type (e.g., Type A); protects against earth faults or leakage currents to reduce electric shock risk.

**List of Inverter/Charger (Hybrid) – with MPPT in Built**

Model	Inverter						Charger			MPPT						Battery		Stock Code
	Battery Voltage (V)	AC Output Power (W/VA)	Peak Power (W)	AC-Out Cable Size (mm <sup>2</sup> )	AC-Out Circuit Breaker (A)	RCD	Max Charge Current (A)	AC-IN Cable Size (mm <sup>2</sup> )	AC-IN Circuit Breaker (A)	Max PV Power (W)	Max PV Input Voltage (Voc) (V)	Max PV Short Circuit Current (A)	DC Cable Size (MPPT) (mm <sup>2</sup> )	DC Circuit Breaker (PV-Inv.) (A)	No. of MPPT / String Per MPPT	DC Cable Size (0-2)/(2-5) (mm <sup>2</sup> )	DC Circuit Breaker (A)	
<b>Victron- EasySolar</b> 12/1600/70 MPPT 100 / 50	12	1300 / 1600	3000	2.5	10/16*	30 mA 16A*	70	2.5	Internal 16	700	100	60	Max 10	63	1 / 3	70 / 140	250	64900-260
<b>Victron - EasySolar</b> 24/1600/40 MPPT 100 / 50	24	1300 / 1600	3000	2.5	10/16*	30 mA 16A*	40	2.5	Internal 16	1400	100	60	Max 10	63	1 / 3	35 / 70	125	64900-261
<b>EasySolar II-GX</b> 24/3000/70-32 MPPT 250/70-Tr	24	2400 / 3000	5500	Max 16	Max 50	30 mA 50A	70	Max 10	32	2000	250	35	Max 16	80	1 / 1	50 / 95	300	64900-425A
<b>EasySolar II-GX</b> 48/3000/35-32 MPPT 250/70-Tr	48	2400 / 3000	5500	Max 16	Max 50	30 mA 50A	35	Max 10	32	4000	250	35	Max 16	80	1 / 1	35 / 70	125	64900-424A
<b>EasySolarII-GX</b> 48/5000/70-50GXA MPPT 250/100-Tr	48	4000 / 5000	9000	Max 16	Max 63	30 mA 63A	70	Max 16	Max 50	5800	250	35	Max 25	100	1 / 1	70 / 2*70	200	64900- 431GXA
<b>Victron - Multi RS</b> 48/6000/100	48	4500 / 6000	9000	Max 16	Max 50	30 mA 50A	100	Max 16	Max 50	6000 (2*3000)	450	16/16	Max 35	125	2 / 1	35 / 70	200	64900-022A
<b>Victron RS smart</b> 48/6000	48	4800 / 6000	9000	Max 16	Max 50	30 mA 50A	100	Max 16	Max 50	4000	450	30	Max 35	125	1 / 1	35 / 70	150	64900-020
<b>Noark S**</b> 48/5000/120-35	48	5000 / 5000	10000	16	80	300 mA Type A	120	6	40	7500	500	19.5 / 19.5	4	25 / 25	2 / 1	35	180	69000-100
<b>Noark S**</b> 48/6000/135-40	48	6000 / 6000	12000	16	80	300 mA Type A	135	10	40	9000	500	19.5 / 19.5	4	25 / 25	2 / 1	35	200	69000-101
<b>Noark S**</b> 48/8000/190-50	48	8000 / 8000	16000	25	100	300 mA Type A	190	10	50	12000	500	39 / 39	4	32 / 20	2 / 2	50	250	69000-102
<b>Noark S**</b> 48/16000/290-100	48	16000 / 16000	32000	70	200	300 mA Type A	290	25	125	24000	500	44/44/44	6	63/63/63	3 / 2	50	350	69000-108
<b>Noark T**</b> 48/10000/210-45	48	10000 / 10000	20000	6	63-3P	300 mA Type A	210	6	63-3P	15000	800	39 / 19.5	4	50 / 25	2 / 2+1	70	300	69000-103
<b>Noark T**</b> 48/12000/240-45	48	12000 / 12000	24000	6	63-3P	300 mA Type A	240	6	63-3P	18000	800	39 / 19.5	4	50 / 25	2 / 2+1	70	300	69000-104
<b>Deye SUN**</b> 48/10000/210-45	48	9999 / 9999	19998	25	125	300 mA Type A	220	16	100	20000	500	44/44/44	10	Max 63/63/63	3/2+2+2	95	300	69000-106
<b>Deye SUN**</b> 48/12000/240-45	48	12000 / 12000	24000	25	125	300 mA Type A	250	16	100	24000	500	44/44/44	10	Max 63/63/63	3/2+2+2	120	300	69000-109
<b>Deye SUN**</b> 48/5000/120	48	5000 / 5000	10000	10	63-3P	300 mA Type A	120	6	63-3P	10000	800	19.5/19.5	4	25 / 25	2 / 1+1	35	150	69000-105

\* The AC distribution consists of an RCD (30mA/16A) and four AC outputs protected by two 10A and two 16A circuit breakers.

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<b>Item</b>	<b>Description</b>
<b>Battery Voltage (V)</b>	The DC voltage the inverter is designed to work with (e.g., 12V, 24V, 48V).
<b>AC Output Power (W / VA)</b>	The continuous power the inverter can supply to loads (real power in W, apparent power in VA).
<b>Peak Power (W)</b>	The maximum short-term surge power the inverter can deliver (for motor starts, etc.).
<b>AC-Out Cable Size</b>	Recommended cable size from inverter output to loads for safe current handling.
<b>AC-Out Circuit Breaker</b>	The MCB rating needed on the AC output side for protection.
<b>RCD</b>	Residual Current Device type (e.g., Type A); protects against earth faults or leakage currents to reduce electric shock risk.
<b>Max Charge Current (A)</b>	Maximum current the inverter/charger can supply to recharge the battery safely.
<b>AC-IN Cable Size</b>	Required cable size for AC input from grid or generator.
<b>AC-IN Circuit Breaker</b>	Protective breaker for the AC input to prevent overloads or faults.
<b>Output AC Voltage (V)</b>	The AC voltage produced by the inverter (e.g., 230V).
<b>DC Circuit Breaker (A)</b>	The required breaker size on the battery side to protect the inverter DC input.
<b>DC Cable Size (mm<sup>2</sup>)</b>	The cross-section of the DC cables needed between battery and inverter.
<b>Max PV Power (W)</b>	The maximum solar panel power (in watts) the MPPT or inverter can safely accept.
<b>Max PV Input Voltage (Voc) (V)</b>	The highest open-circuit voltage from the solar panels that the inverter/MPPT can safely handle.
<b>Max PV Short Circuit Current (A)</b>	The highest PV short-circuit current (Isc) the MPPT/inverter can safely accept.
<b>DC Cable Size (MPPT) (mm<sup>2</sup>)</b>	The required cross-sectional size of the DC cables connecting the solar panels to the MPPT.
<b>DC Circuit Breaker (PV-Inverter) (A)</b>	The breaker rating needed on the solar DC side between the PV array and the inverter/MPPT.
<b>No. of MPPT / String Per MPPT</b>	How many MPPT trackers the inverter has, and how many PV strings can be connected to each one.
<b>DC Cable Size (mm<sup>2</sup>) (Battery Side)</b>	Recommended DC cable size from battery to inverter depending on cable length.
<b>DC Circuit Breaker (A) (Battery Side)</b>	Protective breaker for the DC connection from battery to inverter.