



MASTER
CATALOGUE

We can fit a battery connector
to any charger, before shipping.
£ 20 plus cost of connector.

ENERGIC Plus[®]

BATTERY CHARGERS (SINGLE PHASE 12HR)



Box S

250 x 200 x 320 mm



Box A

430 x 285 x 270 mm



Box B

500 x 340 x 360 mm



Box C

500 x 360 x 700 mm



ORDER REF	DESCRIPTION	BATT CAPAC. (Ah)	BOX	WEIGHT KGS	CURRENT DRAW (A)
101PM1946	12v 10 amps	60-95	S	10	0.70
101PM1947	12v 15 amps	96-110	S	12	1.00
101PM1948	12v 20 amps	111-132	S	12	1.40
101PM1949	12v 25 amps	133-165	S	13	1.70
101PM1950	12v 30 amps	166-198	S	14	2.10
101PM1951	12v 40 amps	199-263	S	17	2.70
101PM1952	12v 50 amps	264-329	A	25	3.30
101PM1953	12v 60 amps	330-395	A	27	4.20
101PM1954	12v 80 amps	396-526	A	32	5.40
101PM1955	24v 10 amps	60-95	S	14	1.40
101PM1956	24v 15 amps	96-110	S	14	2.10
101PM1384	24v 20 amps	111-132	S	14	2.70
101PM1385	24v 25 amps	133-165	S	15	3.30
101PM1112	24v 30 amps	166-198	A	20	4.20
101PM1113	24v 40 amps	199-263	A	21	5.40
101PM1957	24v 50 amps	264-329	A	24	6.70
101PM1114	24v 60 amps	330-395	A	26	8.30
101PM1958	24v 80 amps	396-526	B	37	10.80
101PM1959	24v 100 amps	527-658	C	43	13.30
101PM1960	24v 120 amps	659-789	C	45	16.70
101PM1961	24v 140 amps	790-921	C	53	19.20
101PM1962	36v 30 amps	166-198	A	23	6.20
101PM1963	36v 40 amps	199-263	A	25	8.30
101PM1964	36v 50 amps	264-329	A	33	10.00
101PM1965	36v 60 amps	330-395	B	35	12.50
101PM1966	36v 80 amps	396-526	B	59	16.70
101PM1967	36v 100 amps	527-658	C	65	20.00
101PM1968	36v 120 amps	659-789	C	69	25.00
101PM1969	40v 50 amps	264-329	B	35	12.00
101PM1970	40v 60 amps	330-395	B	38	14.40
101PM1971	40v 80 amps	396-526	C	62	19.20
101PM1972	40v 100 amps	527-658	C	67	24.00
101PM1973	48v 10 amps	60-95	S	19	2.70
101PM1974	48v 15 amps	96-110	A	22	4.20
101PM1975	48v 30 amps	166-198	A	25	8.40
101PM1976	48v 40 amps	199-263	B	35	10.80
101PM1977	48v 50 amps	264-329	B	39	13.50
101PM1386	48v 60 amps	330-395	B	45	16.70
101PM1115	48v 80 amps	396-526	C	54	21.70
101PM1978	48v 100 amps	527-658	C	59	27.10
101PM1979	48v 120 amps	659-789	C	65	33.30
101PM1980	72v 60 amps	323-395	C	59	25.00
101PM1981	72v 80 amps	396-526	C	64	33.30
101PM1982	72v 100 amps	527-658	C	70	40.00
101PM1983	80v 40 amps	199-263	C	63	19.20
101PM1984	80v 60 amps	323-395	C	70	28.70
101PM1985	80v 80 amps	396-526	C	78	38.30

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BATTERY CHARGERS (3-PHASE DIGITAL)



Box A

500 x 360 x 700 mm



Box B

500 x 440 x 800 mm



Box B Maxi

630 x 500 x 1050 mm



Order Ref	Description	Batt. Cap. (Ah)	Box	Weight kgs	Current draw (A)
101PM2012	24v 40 amps	199-263	A	48	2.00
101PM2013	24v 60 amps	323-395	A	57	3.00
101PM1579	24v 80 amps	396-526	A	62	4.00
101PM2014	24v 100 amps	527-658	A	66	5.00
101PM2015	24v 120 amps	659-789	A	68	6.00
101PM2016	24v 140 amps	790-921	A	76	7.00
101PM2017	24v 160 amps	922-1052	B	77	8.00
101PM2018	24v 180 amps	1053-1184	B	82	9.00
101PM2019	24v 200amps	1185-1315	B	88	10.00
101PM2020	36v 60 amps	323-395	A	59	4.50
101PM2021	36v 80 amps	396-526	A	64	6.10
101PM2022	36v 100 amps	527-658	A	73	7.50
101PM2023	36v 120 amps	659-789	A	81	8.90
101PM2024	36v 140 amps	790-921	A	90	10.50
101PM2025	36v 160 amps	922-1052	B	95	12.00
101PM2026	36v 180 amps	1053-1184	B	104	13.60
101PM2027	36v 200amps	1185-1315	B	110	15.00
101PM2028	40v 50 amps	264-329	A	45	4.20
101PM2029	40v 60 amps	330-395	A	49	5.00
101PM2030	40v 80 amps	396-526	A	57	6.60
101PM2031	40v 100 amps	527-658	A	70	8.20
101PM2032	48v 40 amps	199-263	A	56	4.00
101PM2033	48v 50 amps	264-329	A	60	5.00
101PM1033	48v 60 amps	330-395	A	66	6.00
101PM1034	48v 80 amps	396-526	A	75	8.10
101PM1116	48v 100 amps	527-658	A	82	10.10
101PM2034	48v 120 amps	659-789	A	89	12.10
101PM2035	48v 140 amps	790-921	A	99	14.20
101PM2036	48v 160 amps	922-1052	B	113	16.20
101PM2037	48v 180 amps	1053-1184	B	122	18.20
101PM2038	48v 200amps	1185-1315	B	132	20.20
101PM2039	72v 60 amps	323-395	A	80	9.10
101PM2040	72v 80 amps	396-526	A	88	12.00
101PM2041	72v 100 amps	527-658	A	94	15.20
101PM2042	72v 120 amps	659-789	B	113	18.10
101PM2043	72v 140 amps	790-921	B	122	21.10
101PM2044	72v 160 amps	922-1052	B	131	24.00
101PM2045	80v 40 amps	199-263	A	66	6.60
101PM1387	80v 60 amps	323-395	A	81	9.90
101PM1388	80v 80 amps	396-526	A	93	13.30
101PM1117	80v 100 amps	527-658	A	105	16.60
101PM2046	80v 120 amps	659-789	B	117	19.90
101PM2047	80v 140 amps	790-921	B	124	23.30
101PM2049	80v 160 amps	922-1052	B	129	26.60
101PM2050	80v 180amps	1053-1184	B	135	29.90
101PM2051	80v 200amps	1185-1315	B	142	18.80
101PM2052	80v 220amps	1316-1446	B maxi	180	22.10
101PM2053	80v 240amps	1447-1577	B maxi	185	39.90
101PM2054	80v 260amps	1578-1708	B maxi	190	43.20
101PM2055	80v 280amps	1709-1839	B maxi	195	46.50
101PM2056	96v 60 amps	323-395	B	90	12.10
101PM2057	96v 80 amps	396-526	B	100	16.20
101PM2058	96v 100 amps	527-658	B	118	20.20
101PM2059	96v 120 amps	695-789	B	123	24.30
101PM2060	96v 140 amps	790-921	B	135	28.30
101PM2061	96v 160 amps	922-1052	B	148	32.40
101PM2062	96v 200 amps	1185-1315	B maxi	180	40.50
101PM2063	96v 240 amps	1447-1577	B maxi	195	48.50
101PM2064	96v 260 amps	1578-1708	B maxi	205	52.60
101PM2065	96v 280 amps	1709-1839	B maxi	215	56.60
101PM3314	96v 320amps	1840-2104	B maxi	230	64.80



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TOTAL SOURCE[®]
Parts and Accessories

HIGH FREQUENCY CHARGERS

OTHER OPTIONS AVAILABLE ON REQUEST!!!

UBC

Available at 12 or 24 V
Dual input
Single phase voltage 115/230 V.AC.
Size 230x110x65 mm.
Weight 850 g



SINGLE PHASE

£ 125.00

BC1

Available at 12 or 24 V with
single phase 230 V.AC input.
Size 285x105x75 mm.
Weight 1,5 Kg



SINGLE PHASE

£ 190.00

REF for acid batteries	REF for gel batteries	Type 230 Vac	Nominal battery volt.	Output current	Recom. battery capacity
101PM3388	101PM3389	UBC 12-18	12V	18A	100-150 Ah
101PM3390	101PM3391	UBC 24-15	24V	15A	80-130 Ah

REF for acid batteries	REF for gel batteries	Type 230 Vac	Nominal battery voltage	Output current	Recom. battery capacity
101PM3073	101PM3392	BC 12-18	12V	18A	100-160 Ah
101PM3074	101PM3393	BC 12-35	12V	35A	160-240 Ah
101PM3075	101PM3394	BC 24-30	24V	30A	200-250 Ah

ENERGIC Plus



WHY USE HIGH FREQUENCY CHARGERS ?

- reduce battery heating
- reduce energy costs
- reduce charging times
- longer battery life
- lower water consumption

NEW product

RUBBER TRACKS (MINI EXCAVATOR)

- Track width x number of links x pitch length
- Less damage to roads
 - Less noise
 - Less vibration

Tracks for:

AIRMANN - ATLAS - CASE - HANIX
HITACHI - IHI - JCB - KOMATSU - KUBOTA
MELROE BOBCAT - NISSAN - PELJOB
SCHAEFF - TAKEUCHI - YANMAR - ETC.



For inquiries always indicate machine type



Possibility for fast delivery !

Dimensions

200 x 36 x 72
200 x 40 x 72
200 x 42 x 72
230 x 42 x 72
230 x 43 x 72
230 x 44 x 72
230 x 30 x 96
230 x 31 x 96
230 x 33 x 96
250 x 45 x 72
300 x 72 x 52.5
300 x 84 x 52.5

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BATTERY CHARGERS

ENERGIC Plus ^{hf}

Save up to 40%!
On your energy cost.

WHY USE A CBC HIGH FREQUENCY BATTERY CHARGER?

- reduce battery heating
- automatically calculates the perfect charging curve for your application
- maximize battery life
- lower water consumption
- reduce charging times

- **Full electronic protection**
polarity reversal, short circuit, wrong battery, overheating
- **Unique Assisted Programming System**
enter battery type, voltage, capacity and time available for charge, the CBC self-adjusts to optimum charge parameters
- **Fully automatic** microprocessor controlled battery charger
- **Strong construction**
- **Multivoltage/multi-current power circuit**
controlled by IGBT high frequency regulator
- **LCD Display**
- **Automatic equalisation** and maintenance of the battery
- **Automatic start / shutdown on battery connection**
- **Input voltage three-phase 220/380V**
50/60 Hz. Other input voltages on request.
- **Easy to service and repair**
- **3 Year warranty (on spare parts)**
- **For lead-acid and gel-cell batteries!**
- **Universal, programmable design**
one charger can be configured to charge any motive battery

Size in mm: 500 x 440 x 900



CBC - K5		CBC - K8		CBC - K10		CBC - K15	
REF 101PM4499		REF 101PM4500		REF 101PM4501		REF 101PM4502	
Price: £ 675		Price: £ 795		Price: £ 860		Price: £ 1165	
Weight: 70 kg		Weight: 80 kg		Weight: 100 kg		Weight: 125 kg	
volt	amp	volt	amp	volt	amp	volt	amp
12V	120A	12V	200A	12V	200A	12V	200A
24V	120A	24V	200A	24V	200A	24V	200A
36V	120A	36V	150A	36V	180A	36V	200A
48V	120A	48V	120A	48V	150A	48V	200A
72V	80A	72V	80A	72V	110A	72V	160A
80V	70A	80V	70A	80V	100A	80V	150A
96V	60A	96V	60A	96V	80A	96V	120A



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SMC CHARGERS

NEW

BUILT-IN CHARGER

For lead-acid & gel cell batteries!



The SMC is a battery charger designed to be mounted on board in battery powered vehicles (scissor lifts, golfcarts, etc...). It has been designed for maximum reliability in wet and dusty environments. The SMC has three selectable charging curves (IU, IUa, IUa), suitable to charge both lead-acid and gel-cell batteries. The output current is independent from the variations of the AC input. The exclusive power control system of the SMC ensures a high power factor, high efficiency and very low EMI*, while the simple construction allows very easy service/maintenance operations.

* EMI: electro magnetic interference



REF	VOLT	AMP	DIMENSIONS L x W x H	WEIGHT (Kg)
101PM4770	12	30	300 x 180 x 190	12
101PM4771	12	40	300 x 180 x 190	13
101PM4772	24	20	300 x 180 x 190	13
101PM4773	24	25	300 x 180 x 190	14
101PM4493	24	30	300 x 180 x 190	17
101PM4774	24	40	300 x 180 x 190	19
101PM4775	36	25	300 x 180 x 190	22
101PM4776	36	30	300 x 180 x 190	22
101PM4777	36	40	300 x 180 x 190	24
101PM4778	48	20	300 x 180 x 190	22
101PM4779	48	30	330 x 200 x 260	28
101PM4780	48	40	330 x 200 x 260	33

- Single phase
- Dual input voltage 110V / 220V
- high power factor
- high efficiency
- low EMI: The SMC doesn't generate electrical noise and input current distortion
- microprocessor controlled battery charger
- led control panel
- Auto-equalisation system
- Maintenance system
- charging curves: IU, IUa & IUa
- 10-12h charge system
- double feed of printcard (AC/DC)

All spare parts available.