TriCOM®

TriCOM select

Energy. Endurance. Performance.

TriCOM® select charging system

Cutting-edge technology

The new TriCOM select charging systems not only feature the most modern components and an attractive design, but also make an important contribution to climate protection due to the high level of energy efficiency.

Energy efficiency

The topic of energy efficiency must be considered from an ecological and economic point of view. Compared to conventional chargers, TriCOM select charging systems reduce the consumption of electrical energy during charge by 25%. This leads to decreased energy costs and lower CO_2 emission.

Charging characteristics

TriCOM select charging systems are suitable both for charging wet batteries and for maintenance-free batteries since all relevant charge profiles are stored in the memory of the electronic charging system.

The charging characteristics are controlled and thus independent of mains voltage fluctuations. Regarding charge characteristics intended for wet batteries, particular attention has been given in relation to the optimization of the charge factor. Fulying charging of a battery is achieved through effective acid mixing, reduced gassing and the least possible electrical energy consumption. The result us lower water loss and thus reduced lifetime costs. For opportunity charging or particularly short charging times, an electrolyte circulation option is available for wet batteries.

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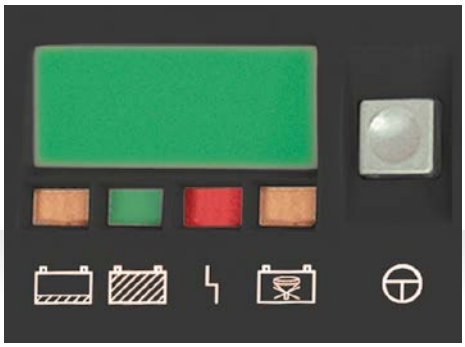
SYSTEM FEATURES

- Extends the service life of the battery - minimized temperature increase during charge.
- Lower CO_2 emissions - consumption of electrical energy during charge reduced by 25%.
- Optimized ventilation system - Supply and exhaust air is directed in horizontal direction via the central heat sink at the rear of the charging system.
- Greatest possible charging capacity with single-phase mains connection - due to the excellent power factor, the devices can draw higher power from the incoming mains and provide a higher charging capacity.
- Sinusoidal current consumption and excellent power factor - reduce the required connected load of the mains and related investment and installation costs.
- Optimally smoothed charging current - reduces the in-service costs (watering intervals) for battery maintenance.
- Electromagnetic compatibility (EMC) for living and industrial areas - suitable for use in businesses, private living and commercial areas as it complies with the EMC requirements.
- "Traffic light" indicating the charge level - The charge level of the battery can be clearly seen from a distance thanks to large colored lights (Cabinet size WT60 and larger).
- Options: Graphic display, IONIC Mixing or electrolyte circulation, Aquamatik.

Charger TriCOM select

"Traffic light" indicating the charge level



Graphic display

TriCOM® select table of types

Device type	Charging times depending on capacity C5 in Ah*						Mains connecton			Weight in kg	Housing type
	PzS				PzV	GIV				LED / "traffic light"	LED / "traffic light"
	6.5 h - 7.5 h	7.5 h - 8.5 h	8.5 h - 10.0 h	10.0 h - 14.0 h	12.0 h - 14.0 h	11.0 h - 14.0 h	AC	Plug	kVA		
E 230 G 24/16	80 - 100	100 - 128	128 - 145	145 - 200	107 - 133	89 - 133	E 230	Schuko	0.71	3.5 / -	WT6 / -
E 230 G 24/20	100 - 125	125 - 160	160 - 182	182 - 250	133 - 167	111 - 167	E 230	Schuko	0.87	3.5 / -	WT6 / -
E 230 G 24/25	125 - 156	156 - 200	200 - 227	227 - 313	167 - 208	139 - 208	E 230	Schuko	1.10	3.5 / -	WT6 / -
E 230 G 24/30	150 - 188	188 - 240	240 - 273	273 - 375	200 - 250	167 - 250	E 230	Schuko	1.24	4.8 / -	WT6 / -
E 230 G 24/35	175 - 219	219 - 280	280 - 318	318 - 438	233 - 292	194 - 292	E 230	Schuko	0.92	4.8 / -	WT12 / -
E 230 G 24/50	250 - 313	313 - 400	400 - 455	455 - 625	333 - 417	278 - 417	E 230	Schuko	1.31	4.8 / 18	WT12 / WT60
E 230 G 24/65	325 - 406	406 - 520	520 - 591	591 - 813	433 - 542	361 - 542	E 230	Schuko	1.75	9 / 18	WT20 / WT60
E 230 G 24/80	400 - 500	500 - 640	640 - 727	727 - 1000	533 - 667	444 - 667	E 230	Schuko	2.16	9 / 18	WT20 / WT60
E 230 G 24/100	500 - 625	625 - 800	800 - 909	909 - 1250	667 - 833	556 - 833	E 230	Schuko	2.69	- / 27	- / WT60
E 230 G 24/120	600 - 750	750 - 960	960 - 1091	1091 - 1500	800 - 1000	667 - 1000	E 230	Schuko	3.22	- / 27	- / WT60
D 400 G 24/150	750 - 938	938 - 1200	1200 - 1364	1364 - 1875	1000 - 1250	833 - 1250	D 400	CEE 16	4.64	- / 30	- / WT60
D 400 G 24/170	850 - 1063	1063 - 1360	1360 - 1545	1545 - 2125	1133 - 1417	944 - 1417	D 400	CEE 16	4.91	- / 38	- / WT60
D 400 G 24/200	1000 - 1250	1250 - 1600	1600 - 1818	1818 - 2500	1333 - 1667	111 - 1667	D 400	CEE 16	5.74	- / 38	- / WT60
D 400 G 24/240	1200 - 1500	1500 - 1920	1920 - 2182	2182 - 3000	1600 - 2000	1333 - 2000	D 400	CEE 16	6.92	- / 38	- / WT60
E 230 G 48/12	60 - 75	75 - 96	96 - 109	109 - 150	80 - 100	67 - 100	E 230	Schuko	1.06	3.5 / -	WT6 / -
E 230 G 48/16	80 - 100	100 - 128	128 - 145	145 - 200	107 - 133	89 - 133	E 230	Schuko	0.83	4.8 / -	WT12 / -
E 230 G 48/20	100 - 125	125 - 160	160 - 182	182 - 250	133 - 167	111 - 167	E 230	Schuko	1.06	4.8 / 18	WT12 / WT60
E 230 G 48/25	125 - 156	156 - 200	200 - 227	227 - 313	167 - 208	139 - 208	E 230	Schuko	1.31	4.8 / 18	WT12 / WT60
E 230 G 48/35	175 - 219	219 - 280	280 - 318	318 - 438	233 - 292	194 - 292	E 230	Schuko	1.82	9 / 18	WT20 / WT60
E 230 G 48/50	250 - 313	313 - 400	400 - 455	455 - 625	333 - 417	278 - 417	E 230	Schuko	2.69	- / 27	- / WT60
E 230 G 48/60	300 - 375	375 - 480	480 - 545	545 - 750	400 - 500	333 - 500	E 230	Schuko	3.22	- / 27	- / WT60
D 400 G 48/85	425 - 531	531 - 680	680 - 773	773 - 1063	567 - 708	472 - 708	D 400	CEE 16	5.19	- / 30	- / WT60
D 400 G 48/100	500 - 625	625 - 800	800 - 909	909 - 1250	667 - 833	556 - 833	D 400	CEE 16	6.16	- / 30	- / WT60
D 400 G 48/120	600 - 750	750 - 960	960 - 1091	1091 - 1500	800 - 1000	667 - 1000	D 400	CEE 16	7.40	- / 30	- / WT60
D 400 G 48/150	750 - 938	938 - 1200	1200 - 1364	1364 - 1875	1000 - 1250	833 - 1250	D 400	CEE 16	8.58	- / 38	- / WT60
D 400 G 48/170	850 - 1063	1063 - 1360	1360 - 1545	1545 - 2125	1133 - 1417	944 - 1417	D 400	CEE 32	9.69	- / 38	- / WT60
D 400 G 48/200	1000 - 1250	1250 - 1600	1600 - 1818	1818 - 2500	1333 - 1667	1111 - 1667	D 400	CEE 32	11.42	- / 38	- / WT60
E 230 G 80/20	100 - 125	125 - 160	160 - 182	182 - 250	133 - 167	111 - 167	E 230	Schuko	1.79	9 / 18	WT20 / WT60
E 230 G 80/25	125 - 156	156 - 200	200 - 227	227 - 313	167 - 208	139 - 208	E 230	Schuko	2.25	9 / 18	WT20 / WT60
D 400 G 80/35	175 - 219	219 - 280	280 - 318	318 - 438	233 - 292	194 - 292	E 230	Schuko	3.11	- / 27	- / WT60
D 400 G 80/50	250 - 313	313 - 400	400 - 455	455 - 625	333 - 417	278 - 417	D 400	CEE 16	4.64	- / 30	- / WT60
D 400 G 80/65	325 - 406	406 - 520	520 - 591	591 - 813	433 - 542	361 - 542	D 400	CEE 16	6.09	- / 30	- / WT60
D 400 G 80/85	425 - 531	531 - 680	680 - 773	773 - 1063	567 - 708	472 - 708	D 400	CEE 16	7.96	- / 30	- / WT60
D 400 G 80/100	500 - 625	625 - 800	800 - 909	909 - 1250	667 - 833	556 - 833	D 400	CEE 16	9.20	- / 38	- / WT60
D 400 G 80/120	600 - 750	750 - 960	960 - 1091	1091 - 1500	800 - 1000	667 - 1000	D 400	CEE 32	11.07	- / 38	- / WT60
D 400 G 80/150	750 - 938	938 - 1200	1200 - 1364	1364 - 1875	1000 - 1250	833 - 1250	D 400	CEE 32	14.05	- / 70	- / WT120
D 400 G 80/170	850 - 1063	1063 - 1360	1360 - 1545	1545 - 2125	1133 - 1417	944 - 1417	D 400	CEE 32	15.92	- / 70	- / WT120

* Reference values, observe the instructions of the battery manufacturers

Housing type	Width mm	Height mm	Depth mm
WT6	294	218	127
WT12	334	218	127
WT20	460	218	166
WT60	564	405	318
WT120	564	905	392

TriCOM® select RACK

The TriCOM select RACK consists of individual independent charging modules, which are installed in the provided industrial cabinets either next to each other or on top of each other (depending on the capacity). The charging modules are available with output voltages of 24 V, 48 V or 80 V.

The standard cabinet can store a maximum of 12 charging modules 24 V / 80 A or a maximum of 3 charging modules up to 80 V / 240 A. In applications where battery charging room space is limited, these configuration possibilities allow simultaneous charging of a larger number of batteries with one charger.

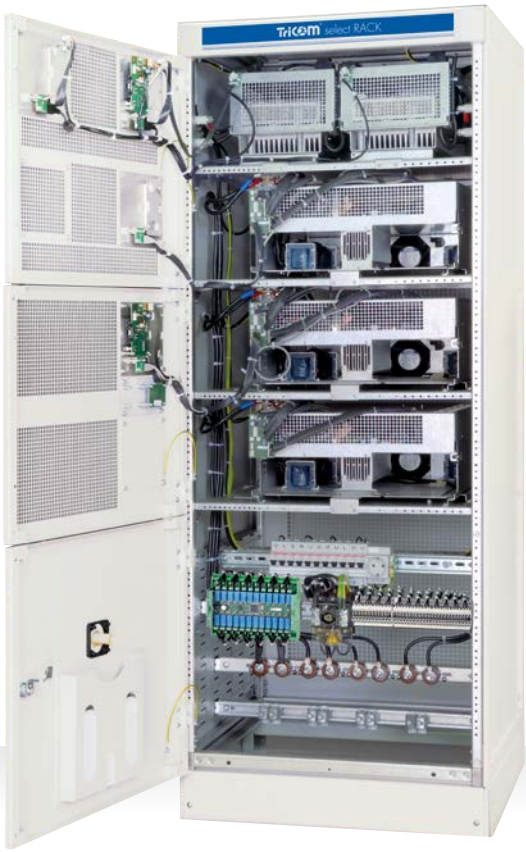
Using the monitoring software, comprehensive monitoring, control and remote maintenance of the charging system is possible both on site and from a remote control center. The connection can be made over internet, LAN / WLAN. The use of this software allows an efficient and sensible use of all charging stations optimized deployment of the maintenance and service staff.

As is the cased with all electronics, the intense contact with conductive dust and/or acidic air may lead to increased corrosion of electronic components and thus early failures of the electronic charging system.

By coating the printed circuit boards and applying a special air flow concept, the contact of acidic air with electronic components is largely prevented with the TriCOM select RACK.

TriCOM® select RACK

Charging system
TriCOM select RACK 200 cm

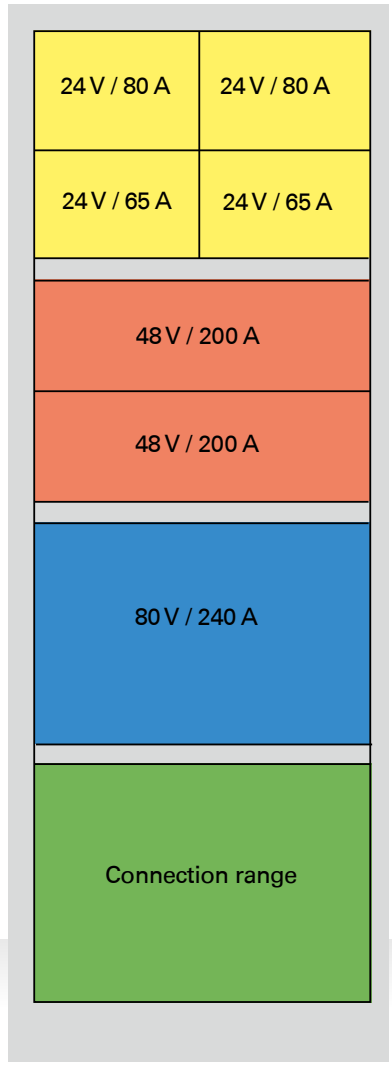


Charging system
TriCOM select RACK 160 cm

TriCOM® select RACK

SYSTEM FEATURES

- Extremely high power density - coupled with a minimized space requirement and footprint.
- Different system combinations - makes tight spaces possible.
- Special ventilation concept - to protect the power element against dust and grime.
- High efficiency - up to 95%.
- Sinusoidal current consumption - reduction of the required connected load of the mains.
- Remote monitoring possible - overview of all charging events.
- Smoothed charging current - extends the service life of the traction battery.
- Flexible positioning - can be set up in the production area.
- Two construction heights - 160 cm or 200 cm.
- Robust housing



Configuration example for height 200 cm

- Good visibility - due to a large “traffic light” indicating charge level.

“Traffic light” indicating the charge level

for traction batteries

Triathlon Batterien GmbH
Siemensstraße 1
08371 Glauchau
Germany

Tel: +49 (0)3763/77 85-0
Fax: +49 (0)3763/77 85-110

E-Mail: info@triathlon-batterien.de
Internet: www.triathlon-batterien.de