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# Thyrotronic Battery charger/Rectifier

24/48/60/110/220VDC



- Thyristor rectifier/battery charger
- Parallel operations with active load sharing
- Thysat panel with LCD/LED

The **Thyrotronic** series is the classical thyristor rectifier with state-of-the-art Thysat monitoring and control. Thyrotronic battery chargers are used in e.g. industry and power stations and can be supplied for all battery types, including NiCd. Thyrotronic offers a wide range of options and can therefore be adapted to most applications.

# Thyrotronic

## Battery charger/Rectifier

### 24/48/60/110/220VDC

Type	Voltage	Current	Voltage	Cabinet	Weight
	[VDC]	[ADC]	[VAC]		[kg]
E230 G24/ 20 Bwrug-TDG	24	20	230	WGZ 755	30
E230 G24/ 40 Bwrug-TDG	24	40	230	WGZ 755	40
E230 G24/ 60 Bwrug-TDG	24	60	230	PSJ 1564	60
E230 G24/ 80 Bwrug-TDG	24	80	230	PSJ 1564	75
D400 G24/ 100 Bwrug-TDG	24	100	3 x 400	PSJ 1564	150
D400 G24/ 125 Bwrug-TDG	24	125	3 x 400	PSJ 1564	200
D400 G24/ 160 Bwrug-TDG	24	160	3 x 400	PSJ 1564	240
D400 G24/ 200 Bwrug-TDG	24	200	3 x 400	PSJ 1564	290
E 230 G108/ 5 Bwrug-TDG	108 (110)	5	230	WGZ 755	30
E 230 G108/ 10 Bwrug-TDG	108 (110)	10	230	WGZ 755	40
E230 G108/ 16 Bwrug-TDG	108 (110)	16	230	PSJ 1564	60
D400 G108/ 25 Bwrug-TDG	108 (110)	25	3 x 400	PSJ 1564	75
D400 G108/ 30 Bwrug-TDG	108 (110)	30	3 x 400	PSJ 1564	95
D400 G108/ 40 Bwrug-TDG	108 (110)	40	3 x 400	PSJ 1564	180
D400 G108/ 50 Bwrug-TDG	108 (110)	50	3 x 400	PSJ 1564	220
D400 G108/ 60 Bwrug-TDG	108 (110)	60	3 x 400	PSJ 1564	260
D400 G108/ 80 Bwrug-TDG	108 (110)	80	3 x 400	PSJ 1564	330
D400 G108/ 100 Bwrug-TDG	108 (110)	100	3 x 400	PSJ 1866	400
D400 G108/ 125 Bwrug-TDG	108 (110)	125	3 x 400	PSJ 1866	450
D400 G108/ 160 Bwrug-TDG	108 (110)	160	3 x 400	PSJ 1866	500
D400 G108/ 200 Bwrug-TDG	108 (110)	200	3 x 400	PSJ 1896	520
E230 G216/ 5 Bwrug-TDG	220	5	230	WGZ 755	40
D400 G216/ 10 Bwrug-TDG	220	10	3 x 400	PSJ 1564	60
D400 G216/ 16 Bwrug-TDG	220	16	3 x 400	PSJ 1564	80
D400 G216/ 20 Bwrug-TDG	220	20	3 x 400	PSJ 1564	120
D400 G216/ 25 Bwrug-TDG	220	25	3 x 400	PSJ 1564	220
D400 G216/ 30 Bwrug-TDG	220	30	3 x 400	PSJ 1564	260
D400 G216/ 40 Bwrug-TDG	220	40	3 x 400	PSJ 1564	330
D400 G216/ 50 Bwrug-TDG	220	50	3 x 400	PSJ 1866	400
D400 G216/ 60 Bwrug-TDG	220	60	3 x 400	PSJ 1866	450
D400 G216/ 80 Bwrug-TDG	220	80	3 x 400	PSJ 1866	500
D400 G216/ 100 Bwrug-TDG	220	100	3 x 400	PSJ 1896	620

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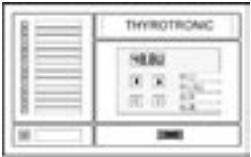
## Battery charger/Rectifier

### 24/48/60/110/220VDC

#### Technical specifications, Thyrotronic battery charger

<b>Input</b>	
Input voltage:	230VAC alt. 3x400VAC + N (other voltages on request, e.g. 3x415, 3x660)
Input frequency:	50 or 60Hz, +/-5%
<b>Output</b>	(other voltages / power supplied on request)
Adjustment:	+/-5%
Ripple:	Max. 5% rms (2% ripple filter as option, price = 3% of rectifier price)
Control:	Voltage control +/- 0.5%
Parallel operations:	Yes, built-in blocking diode as option
Instrumentation:	LCD V & A meter, LED alarms/operational status
Monitoring	High/low DC voltage, charger error, network error, current limit, earth fault, etc.
Temperature range:	0-40°C, natural cooling without ventilators
Cabinet:	IP20
Colour:	RAL 7032
Standards:	EN 50081, CE labelled
EC 950	
Options:	<ul style="list-style-type: none"> <li>Higher encapsulation class</li> <li>Distribution</li> <li>Battery MCBs</li> <li>Countercells for regulation of max. DC voltage for load</li> <li>Temperature sensor for temperature-compensated charging voltage</li> <li>Extra instrumentation</li> <li>LVD, low-voltage load disconnection</li> <li>Gauge transducers, e.g. 4-20mA</li> <li>Standby heating</li> <li>Lacquered in the customer's chosen colour</li> <li>Seismic structure</li> <li>Design for marine use</li> <li>Other options on request</li> </ul>

#### Technical specifications for built-in Thysat monitor

	Adjustment of rectifier parameters
	Earth fault monitoring
	Automatic (I*R) correction of voltage drops in battery cables
	Automatic boost/float charge, time delayed
	LCD display with DC current and DC voltage
	LED display showing alarms and operational status
	Automated battery testing with adjustable time and voltage limits
	Cyclic battery circuit test