## **Bidirectional**

## **IGBT-Transistor-Rectifier**



**Type GR-3864** 

Continuous transfer from mains supply to DC-supply (battery test)

High dynamic

Low ripple ≤ 0.5 %

**Electrical isolation (galvanic)** 

Low mains feed back through P.F.C

Input power factor  $\lambda = 1$ 

Parallel connectable

**Intelligent monitoring functions** 

Configurable interface (Relay, RS232, CAN, HTTP ...)

User-friendly control functions with integrated processor

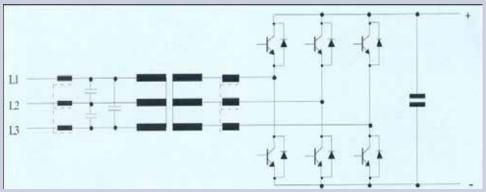
**Up to 1000 V DC** 

Output current up to 1250 A

Temperature-regulated charging voltage

3 charging characteristics (automatic)

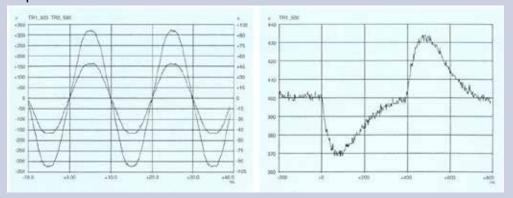






Due to our modern control with PWM-rectifier (IGBT) we achieve a very good rule dynamic over the complete power range.

Extensively configurable interfaces make the integrations in different system environments possible.



Current- and voltage diagram at nominal load at mains input (L1)

Dynamic-behavior at DC-voltage at 100 % load step

Rated capacity	kW	up to 500 kW
Rectifier construction:		IGBT, PWM, galvanic isolated (λ > 0,98)
Input voltage:	V	230/400, 3-phase, N, PE
Input frequency:	Hz	50 (60) ± 5%
Output voltage (adjustable)	V	up to 1000
Output current:	A	up to 1250
Voltage regulation: static dynamic	%	± 1 < 5 % at 100% load step
Ripple:	%	< 0.5
Current rise time:	msec	< 2
EMC:		according to EN 61000-6-4, EN 61000-6-2
Acoustic noise level:	dB(A)	approx. 50 – 70
Cooling:		"AF" forced air cooling
Overall efficiency at nominal load:	%	typical >94% at 220V DC
Permissible ambient temperature:	°C	0 to + 40
Permissible climate:		moderate climate according to 3K3, EN60721
Permissible operating altitude:		1000 m above m.s.l.
Cabinet dimensions:	mm	on demand
Protection class:		IP 20 according to EN60529
Paint finish:		RAL 7035
Monitoring (configurable)		AC-under voltage with switch off DC-over- and under voltage Current limiting Temperature control
Display / operation:		TFT Touch-Screen Display Intuitive menu navigation
Remote signal (configurable floating contacts)		On (clearance controller) Operation / Failure Emergency stop

For your requirements / specifications we are pleased to prepare an individual system configuration.

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subject to change without notification

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