

Bidirectional IGBT-Transistor-Rectifier

Type GR-3864

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

High dynamic

Low ripple $\leq 0.5\%$

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 ...)

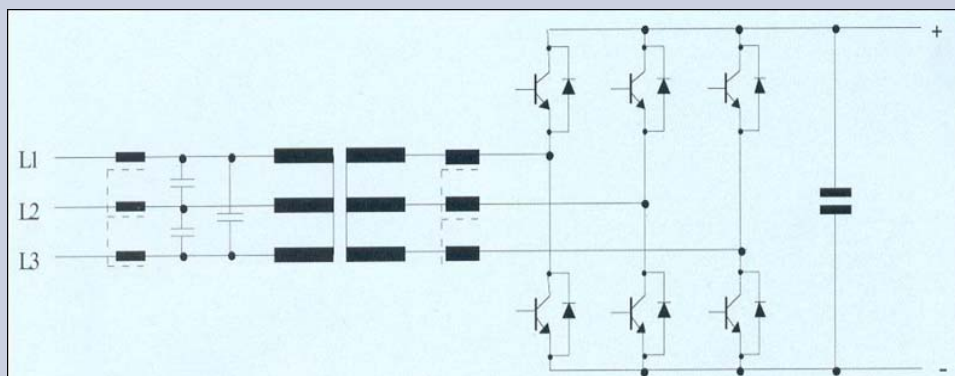
User-friendly control functions with
integrated processor

Up to 1000 V DC

Output current up to 800 A

Temperature-regulated charging voltage

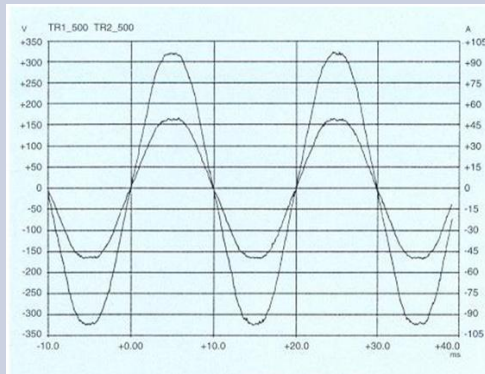
3 charging characteristics (automatic)



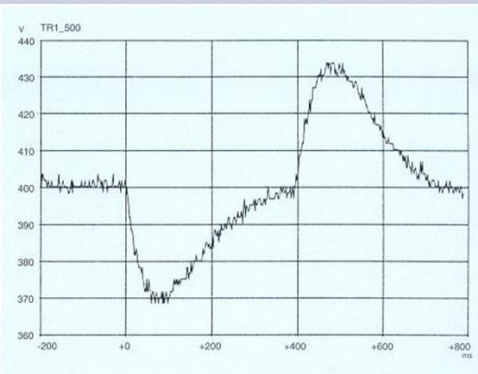
GUSTAV KLEIN
POWER SUPPLIES - since 1948

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

Technical Data

Rated capacity	kW	up to 500 kW
Rectifier construction:		IGBT, PWM, galvanic isolated ($\lambda > 0,98$)
Input voltage:	V	230/400, 3-phase, N, PE
Input frequency:	Hz	50 (60) \pm 5%
Output voltage (adjustable)	V	up to 1000
Output current:	A	up to 800
Voltage regulation: static	%	\pm 1
dynamic		< 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:		Digital measurement system LC-Display 4-lines Incremental control 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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