



TC-MAK Series Thyristor Controlled Charger 220V – 400A

<http://www.mak-powersis.de/220v-400a-battery-charger.html>

Input	Power kVA	102kVA	
	Voltage	400VAC Default (230V – 380V – 415V - 480V AC) 50Hz – 60Hz	3
	Current	Phase + N	
	Harmonics	147A (Phase)	
		<%7	

Output	Power kVA	89kW	
	Voltage	220VDC	
	Current	600A Max (Automatically by Controlling Battery Condition)	
	Efficiency	Minimum %85	
	Ripple	<%4 (Optional Less)	

Control	Technologie	Thyristor Technology	
	CPU	Micro Controller Texas Instruments	
	Pulse	12 Pulse	

GENERAL	Color	RAL7032	
	Transformer	Copper	
	Timer	Exists Adjustable Working Time	
	External Stop	Standard	
	Input Protection	Thermionic Magnetic Circuit Breaker	
	Over Current Protection	MCCB & Software	
	Parallel Operation	Optional	
	Dry Contacts	Optional	
	Cooling Type	Air Cooled or Oil Cooled	
	Remote Controller	50 Meter (Optional)	
	Communication	SNMP, RS232, RS485, USB, MODBUS (Optional)	
	Working Temperature	0C / +40C Celcius – Batterien 0C – 25C	
	Protection Additional	Standard Information	
	Over Current Protection	Via Software	
	Voice (1m)	<65Db	
	LCD	LCD Screen with buttons	
	Cooling Power	Max 43000	
	Standard Protection	EN 62040-1	
Standard EMC	EN 62040-2		
Working Altitude	2200 Meter		

Chassis	Width mm	1855	
	Depth mm	805	
	Height mm	1700	
	Weight kg	2130	
	Protection Class	IP21	