



TC-MAK Series Thyristor Controlled Charger 48V – 400A “
<http://www.mak-powersis.de/48v-400a-battery-charger.html>”

Input	Power kVA	22kVA	
	Voltage	400VAC Default (230V – 380V – 415V - 480V AC) 50Hz – 60Hz	3
	Current	39.8A (Phase)	
	Harmonics	<%7	

Output	Power kVA	19.2kW	
	Voltage	48VDC	
	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	

Chassis	Width mm	1055	
	Depth mm	739	
	Height mm	1512	
	Weight kg	301	
	Protection Class	IP21	