



# TC-MAK Series Thyristor Controlled Charger 220V – 80A

<http://www.mak-powersis.de/220v-80a-battery-charger.html>

<b>Input</b>	Power kVA	20.5kVA	
	Voltage	400VAC Default ( 230V – 380V – 415V - 480V AC ) 50Hz – 60Hz	3
	Current	Phase + N 30A (Phase)	
	Harmonics	<%7	

<b>Output</b>	Power kVA	18kW	
	Voltage	220VDC	
	Current	600A Max ( Automatically by Controlling Battery Condition )	
	Efficiency	Minimum %85	
	Ripple	<%4 (Optional Less)	

<b>Control</b>	Technologie	Thyristor Technology	
	CPU	Micro Controller Texas Instruments	
	Pulse	12 Pulse	

<b>GENERAL</b>	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		

<b>Chassis</b>	Width mm	1440	
	Depth mm	560	
	Height mm	1000	
	Weight kg	780	
	Protection Class	IP21	