REC-MAK SD Series Battery Chargers

127V / 100 Amper DC Supply

MAK POWER SYSTEMS
www.mak-powersis.de

- High Frequency PWM Newest Technology
- Thyristor Technology or IGBT Technology 1 Millisecond R. Time
- Micro Chip Controlled, Fast and Precisely, Efficient
- Perfect DC Supply for Industrial Solutions
- 2 Years Warranty & 10 Years Spare Part Availability
- High Efficiency up to 96%
- Thyristor or IGBT Switch Mode Optional
- Wide Input Voltage Range for Usage in Rural Areas
- Advanced Protection and Data Logging for Industrial Usage
- Short Circuit, Overload, Over Voltage & Over Temperature Protection
- Unlimited Number of Paralleled Modules
- Selectable Output Voltage Values “Lower Than Ordered Unit”
- 6 Pulse, 12 Pulse or Switch Mode Technology
- Input 230V / 400V or 108V / 220V & 50Hz / 60Hz Options
- Constant Voltage or Current Option
- Small Footprint, Easy Maintenance & Robust & Anti Rust Cabinet
- Easy Monitoring Voltage, Current, from Screen
- Warning LEDs and Dry Contact as Optional
- Wall Mount or Stand Alone or With Wheel Optional
- Customized Production, Higher Voltage & Current Values

Marine Applications

GSM Stations & Radars

Automation Panels

*12Volt – 24Volt – 48Volt – 72Volt – 108Volt – 127Volt - 220Volt / * 50Amper – 80Amper – 100Amper – 150Amper – 200Amper – 400Amper - 600Amper

REC-MAK SD Series DC Supply

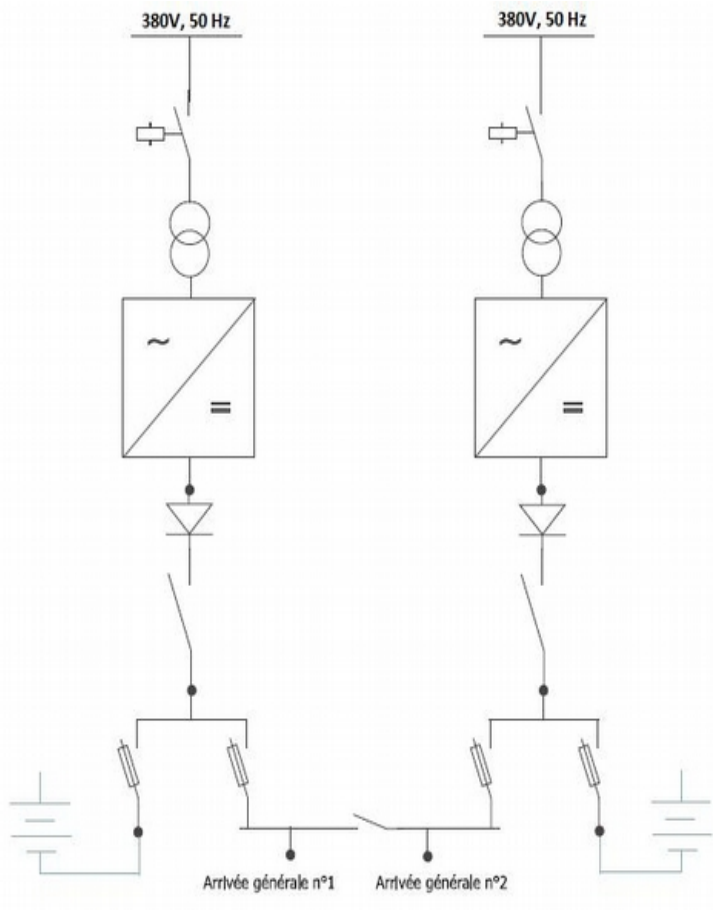
DC Supply

TC-MAK series battery chargers are developed for charging high capacity batteries used in forlifts, GEL batteries, traction batteries electrical earth movers etc… and designed for both individual for your electrical vehicles or industrial use. User friendly control panel and easy operating system is very practical to connect, control.Since the battery charger is electrically smart micro chips controlled charging operation is very safe, easy and extends your lead acid battery life. Day-off charging function enables the battery fully charged when it is not used and increase the life time of the battery. There is no need for any adjustments with Plug and play function and charging starts automatically when the battery is connected.

The charger consists of economic, environment-friendly, and reliable DC power supplies that use the resonant converter technology, operating at high frequencies. They have a high input power factor along with very low output voltage ripples. They have a high input power factor along with very low output voltage ripples. They have a high input power factor along with very low output voltage ripples. They are used extensively for charging lead-acid and as customized nickel cadmium batteries; at telecom and power distribution sites, or wherever DC power is needed.

Useable Areas:

Telecom systems,
Ni-Cd and Lead,
Acid batteries charger,
Energy distribution stations,
Power stations,
Emergency lighting systems,
Natural gas distribution control stations
DC uninterruptible power systems



neral Specifications

These systems are produced in variety options.
For example; parallelly working rectifiers, inverters,
STS and battery group mounted in same cabin .
SMPS, Hi-rect and rectifier systems which includes
he battery group.
Paral.ly working rectifiers with battery group.
Parallelly working inverters, rectifiers and static
by-pass systems with battery working.
Systems which has Battery group, rectifiers, inverters
and distribution fuses.

REC-MAK SD Series DC Supply

127V / 100 Amper DC Supply

INPUT	Voltage	Three Phase 380 Volt 50Hz
	Voltage Tolerance	± 15%
	Frequency	50/60 Hz.
	Frequency Tolerance	±10%
	Power Factor	1-Phase: 0.98 (THD 4%) / 3-Phae: 0.92 (THD 30%)
OUTPUT	Voltage	127Vdc, -10% ... +35% (front panel selectable)
	Current	100A
	Current Limiting	I nom x 102% front panel selectable between 0 and 102%
	Ripple	<0.5%
	Voltage Regulation	±0.5 % at float charge, ±1% at boost charge
	Efficiency	3- Phase: >92% / 1- Phase: >85%
	Protections	Input, output (thermal/magnetic) fuses, Advanced short circuit protection, Over voltage protection, Over current protection, Automatic restart
BATTERY	Battery Charge Modes (Adjustable Charging voltages)	Automatic charge, boost charge: 2,4 V / Cell Float Charge: 2.25 V / Cell
	Boost Charge Time	Increment able by 1 hour up to 24 hours
	LCD Properties	2x16 character wide display, showing: Output voltage & current, Output voltage high/low Load (%), Log Records up to 200 logs with Real Time Clock Calender AC (DC available), Fault, Current limiting,
	Displays	Automatic charge, Float charge, Boost charge, Common alarm
	Alarms	Common relay contact output for AC input low, DC output low and overheat
	Operation and control	Via menu selections from buttons on front panel
	Endurable Dielectric Voltage	2000 V Input-Output 2000 V Input-Chasis 500 V Output - Chasis (For PS with output voltage <50 V) 1000 V Output - Chasis (For PS with output voltage >50 V)
GENERAL FEATURES	Case Dimensions (WxDxH)	Rectifier: 600mm x 600mm x 1800mm / Distribution Panel 600mm x 600mm x 1800mm
	Protection Class	IP20
	Audible Noise 1m.	50dBA
	Cooling	Mandatory cooling (Fan)
	Weight	Rectifier: 230kg / DistributionPanel: 160kg
	Operation Temperature	OºC.....40ºC
	Storing Temperature	-20ºC... 70ºC
	Relative Humidity	98% (Non-condensing)
STANDARDS	Standards	VDE,DIN 41773 (Battery charge characteristics) ANSI-NEMA PE 5 TS 2000 EN 62040-1, 2,

OPTIONAL

* 1 Phase Input max output power

** 3 Phase Input max output power

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