



## Portable DC Charger

Portable DC Charger technologies:

- . 6-pulse and 12-pulse Silicon controlled rectifier (SCR) with Thyristors
- . Adjustable output voltage
- . Usable for Ni-cd and Sealed Lead acid Batteries
- . Ability to charge batteries with different quantities and capacities
- . Controlled DC voltage with DC-DC Converter system
- . Suitable for quick replacement with defective battery chargers in emergency situations.
- . Voltage control with IGBT
- . Input 400Vac, 3Ph, 50Hz
- . Efficiency >85%
- . Output 5A to 500A
- . Constant voltage value and constant current value can be continuously adjustable within the range 100~0%
- . Over-temperature automatic protection
- . Ability to boost, float and initial charge.
- . Simultaneous control of voltage, current, and charging time.



# Portable DC Charger

## Protection

- Input circuit breaker
- Battery fuse/circuit breaker
- Charger current limit
- Short circuit protection
- Reverse battery polarity protection
- over temperature

## Alarm

- General alarm
- Mains fail
- Charger fail
- DC high
- DC low
- Under/Over voltage
- Earth fault
- Battery disconnect

## Features and benefits

- SCR Rectifier
- Soft-start for start-up overcurrent limitation
- Support all charging methods for vented/sealed lead acid batteries and Ni-Cd batteries
- Ability to adjust voltage from 100~0% of nominal voltage
- Standard configurations, for cost effective and short lead time solution
- High personalization grade
- Front accessibility for easy maintenance
- Infineon 32-bit microprocessor control for best in class performance and reliability
- Digital control panel and mimic display for signals, alarms, meters and history events
- continuous monitoring (HMI)
- Comprehensive set of communication option for total remote monitoring of equipment operation
- Small size design for easy installation and minimum space requirements
- Timer controlled for battery charger
- DC earth fault monitoring and alarm
- Fan monitoring and alarm



Technical data	
Rated Current	10A to 500A
Input	
Nominal Voltage	400Vac $\pm$ 10%
Number of Phase	3Ph
Frequency	50Hz
Input THDI	25%~30% (for 6 Pulse) – 10%~12% (for 12 Pulse) – <12% (for 12Pulse and THDI filter)
Output	
Nominal Voltage	24/48/110/220/380 Vdc
Voltage Regulation	0 ~100% of Nominal Voltage
Voltage Ripple	$\leq$ 1%
Mechanical Characteristics	
Dimension	minimum size according to output power
Cooling	Fan Cooling
Color	RAL 7035 - RAL 7032
Protection degree	IP21(for open door) – IP42( for close door)
Operating degree	+5°C ~ +40°C
Storage temperature	+2°C ~ +55°C
Audible noise at 1 meter	<65 dB
Options	Ability to charge battery with different quantities and capacities is due to the adjustable output voltage
User interface	
Front panel	Human Machin Interface (HMI)
Connectivity	RRA Relay board with dry contact
	RS485 Modbus-RTU with serial port (mapping diagram)
Metering	
Metering	Charger voltage
	Battery voltage
	Battery charge and discharge current
	Input voltage
	Input current