



## DC Power supply / Mini Series Smart charger

Charger & Rectifier

24/30/48/50Vdc

Normal current 10/15/20A

Single Phase



### Features

- Microcontroller based charger
- Touch screen display
- Manual and automatic switching
- Programmable float/boost charge change over
- Constant voltage and current limited
- Alarm and history event and download
- Very high reliability with thyristors and natural cooling
- Mains transformer with separate windings
- Mains input with contactor
- Input and output MCB protection
- Battery inside cabinet optional
- Easy maintenance

The protection of electrical load against power failure is often carried out by battery backed up DC power supplies, providing electrical energy to important loads during mains supply, as well as during mains failure.

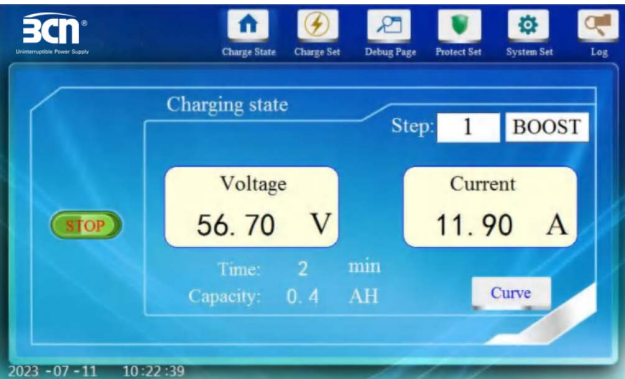
The Smart charger equipment provides an advanced solution with Small substations and power plants system. It combines reliability from naturally cooled thyristor-based rectifier with proven microprocessor control technology to offer the best performances in any electrical and environmental conditions. It's suitable for charging VRLA sealed lead acid as well as maintenance free nickel-cadmium batteries.

Applications

- Power generation plants
- Transmission and Distribution
- Substations
- Continuous process industries
- Oil & Gas and
- Petrochemical industries
- Rail transport



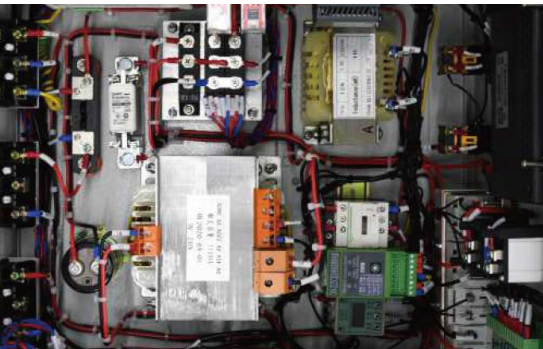
Display and operation unit



The display and operation unit mounted on the front door of the touch screen display to indicate the status and the measurements in plain text, as well as 11 LED controlled by the monitoring and control unit. In addition, the front panel is equipped with Boost- float change-over switch and manual-automatic change-over switch, which are used to switch charging mode; it is equipped with circuit breaker and fuse to protect the input and output of charger.

Protection and alarm

- Overload/short circuit
- Input and output fuse or breaker
- Over temperature protection
- Over DC voltage/under DC voltage
- Ground alarm
- Dropping diode(optional)



Indications

- |               |                        |
|---------------|------------------------|
| • Mains on    | • Manual               |
| • Run         | • Mains fault          |
| • BAT MCB on  | • Output under voltage |
| • Load MCB on | • Output over voltage  |
| • Float       | • Ground fault         |
| • Boost       |                        |

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### Specifications

Input	
Nominal input voltage	220VAC $\pm$ 10% 1phase (Other voltages can be customized )
Frequency	50/60Hz $\pm$ 5%
Output	
Output voltage	24V, 30V, 48V, 50V
Output voltage range	100%-150% nominal voltage
Output current	10A, 15A, 20A
Ripple voltage	Within 2% RMS at full load&max.DC voltage
Current	Limited to 110% of In
Output Regulation	$\pm$ 1% for 198 to 242VAC supply voltage
Analog measurements	Output voltmeter and amperemeter,load voltmeter and amperemeter(Dropping diode type)
Local alarms	Mains fault,output under voltage,output overvoltage,ground fault
Mode of operation	Boost/float, Manual/Automatic
Protections	Overload/short circuit,Charger fuses,Battery and load breaker,Over temperature protection
Available languages	English, Spanish (Optional)
General Information	
Cabinet Dimession	Battery inside cabinet:1100H*580W*600D Battery outside cabinet:350H*440W*500D
Degree of protection	IP20
Color	RAL7035
Operating Temperature	0C to 45C , Up to 55C with power derating
Humidity	10% to 95% non condensing
Installation height	Up to 1000m over sea level Up to 3000m with power derating
Connection	bottom

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