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PRODUCT  
NOTE

# XUNZEL-DBC Series

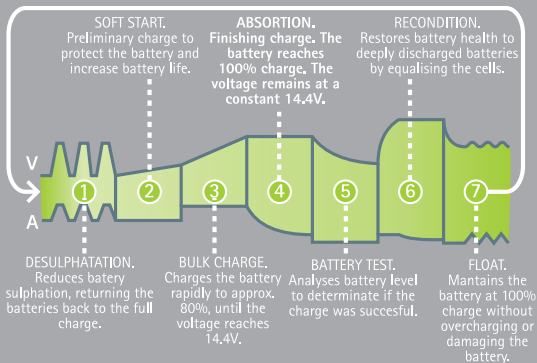
## 7-Stage Automatic Digital Battery Charger



XUNZEL-DBC

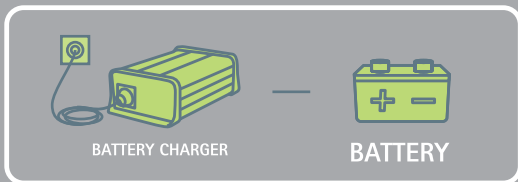
7 Stage Automatic Digital Battery Chargers

### DIGITAL / AUTOMATIC



7 Stage Automatic Digital Charger

(example for 12V models)



## XUNZEL – DBC Series 7 Stage Automatic Digital Battery Charger

### Product Overview

The **XUNZEL-DBC Series** battery charger is an advanced and universal 7-step digital battery chargers controlled by a microprocessor for optimum charge that provides an unsurpassable quality/price relationship. It has been designed to charge lead acid batteries, AGM, GEL, liquid or calcium 12V or 24V batteries, with a variable charging current and voltage, depending on the step it is.

This battery charger can be left indefinitely connected to the battery due to the protections on its automatic charging system, maximizing lifetime of the battery. Furthermore, it includes battery clamps so you can connect and disconnect it very easily. They are an ideal solution for off-grid, off-shore and backup power applications.

### Available Models

**DBC-I205** Battery Voltage: 12V DC / Output Current: 5A DC / Recommended Battery Size: 35-70Ah

**DBC-I210** Battery Voltage: 12V DC / Output Current: 10A DC / Recommended Battery Size: 70-200Ah

**DBC-I220** Battery Voltage: 12V DC / Output Current: 20A DC / Recommended Battery Size: 134-400Ah

**DBC-2410** Battery Voltage: 24V DC / Output Current: 10A DC / Recommended Battery Size: 70-200Ah

## XUNZEL-DBC Features and Benefits

- **Automatic 7-Step Digital** charging algorithm
- **Universal** for lead acid batteries: AGM, GEL, liquid and calcium.
- **Soft start**, starting-up in a very low voltage to recover damaged batteries.
- **Compact design** and lightweight anodized aluminum casing.
- **Available models in 12V or 24V** for charging 12V or 24V batteries

Industry Leading Technology for Off-Grid, Off-Shore and Backup Power Applications



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## 7-Stage Automatic Digital Battery Charger

### XUNZEL-DBC Specifications



Specifications	DBC-I205	DBC-I210	DBC-I220	DBC-2410
Output DC Current	5A	10A	20A	10A
Nominal Output DC Voltage	12VDC	12VDC	12VDC	24VDC
Input Voltage	220-240 VAC			
Input Power	154W	307W	554W	547W
Minimum Start Voltage	2V	2V	2V	4V
Charger type	7-Stage automatic			
Desulphation. Pulse charge up to:	11V	11V	11V	22V
Soft-Start. Half the rated set current up to:	12V	12V	12V	24V
Bulk	5A up to 14.4V	10A up to 14.4V	20A up to 14.4V	10A up to 28.8V
Absorption. Constant voltage until current drops to:	0.75A	1.5A	3.0A	1.5A
Battery test	Monitors voltage for 90 seconds			
Recondition. Constant current for 4 hours limited to:	0.75A / 16V	1.5A / 16V	3.0A / 16V	1.5A / 32V
Float (also with pulse feature)	13.8V	13.8V	13.8V	27.6V
Efficiency	85 ~ 90%			
Thermal Protection	65°C ± 5°C			
Cooling Fan	Automatic temperature controller			
Ambient Temperature	-20°C to +50°C			
Over Voltage Protection	higher than 17.5V			higher than 35V
Type of Battery	Lead acid batteries: AGM, GEL, liquid and calcium			
Recommended battery size	35-70Ah/12V	70-200Ah/12V	134-400Ah/12V	70-200Ah/24V
Weight	0.98 kg	0.98 kg	1.22 kg	1.22 kg
Dimmensions (LxWxH) - mm	190 x 115 x 62	190 x 115 x 62	215 x 115 x 62	215 x 115 x 62

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