

# DBC-LFPB™ Series. Universal battery chargers



**DBC1201LFPB**  
18W 12V  
Universal Battery Charger



**DBC12406LFPB**  
100W - 12V and 24V  
Universal Battery Charger



**DBC12410LFPB**  
150W 12V and 24V  
Universal Battery Charger



## DBC-LFPB™ Series – XUNZEL

**Universal battery charges** for Lead-acid Pb (GEL, AGM, Flooded-WET, MF, Calcium) and Lithium-ion (4S and 8S- LiFePO<sub>4</sub>, Li-Fe, Li-iron, LFP) rechargeable batteries

### Description

- DBC-LFPB™ Series are Universal battery chargers to give the best performance. Make your rechargeable batteries are always charged in the best conditions.
- Designed to optimal charge normal Lead-acid Pb (GEL, AGM, Flooded-WET, MF, Calcium) and Lithium-ion (4S and 8S- LiFePO<sub>4</sub>, Li-Fe, Li-iron, LFP) rechargeable batteries.
- Multi-stage smart algorithm charging for optimal charging and extended battery life with Temperature compensation.
- High efficiency and very low drain back current chargers (<100μA/<0.9W/month)
- Silent, Robust, Compact and Light Design allows it to fit well in any space.
- Easy and safe to use with protected strong battery clamps.
- High Efficiency. Very low self-consumption. Microcontroller based, get the most of your batteries.
- Full protections: short circuit, over current and reverse polarity.
- Models suitable for 12V and 24V systems.
- Clear readable LEDs display for easy and quick status reading.
- Safe and reliable. Temperature Compensation System integrated and complete electronic automatic protections.

### PLUS: DBC-LFPB-12406 and DBC-LFPB-12406 models

Advanced Programmable Charging Algorithms with **MODE function**. Program Lead-Acid (Pb) or Lithium-Iron (LFP) technology first and then 12/12.8V and 24/25.6V charging voltage.



### Available Models:

- **DBC-LFPB-1201** for 12V | Lead Acid-Pb + Lithium-Iron-LFP | 18W
- **DBC-LFPB-12406** for 12V and 24V | Lead Acid-Pb + Lithium-Iron -LFP | 100W
- **DBC-LFPB-12410** for 12V and 24V | Lead Acid-Pb + Lithium-Iron -LFP | 150W

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



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## Technical Specifications

Model	DBC-LFPB-1201   12V	DBC-LFPB-12406   12/24V	DBC-LFPB-12410   12/24V
Code   Part Number	<b>DBC1201LFPB</b>	<b>DBC12406LFPB</b>	<b>DBC12410LFPB</b>
Power	18W	100W	150W
Battery Voltage	12V	12/24V (User Programmable Mode)	
Rechargeable Battery Types	Lead-acid Pb (GEL, AGM, Flooded, WET, MF, Calcium) and Lithium-ion LiFePO <sub>4</sub> (4S) (Li-Fe, Li-iron, LFP)	Lead-acid Pb (GEL, AGM, Flooded, WET, MF, Calcium) and Lithium-ion LiFePO <sub>4</sub> (4S and 8S) (Li-Fe, Li-iron, LFP)	
Battery Size (recommended)	min. 1.2Ah, max. 48Ah	min. 14Ah, max. 120Ah	min. 30Ah, max. 290Ah
Input (AC)	100 ~ 240VAC, 50-60Hz, 0.5A max	100 ~ 240VAC, 50-60Hz, 1A max	100 ~ 240VAC, 50-60Hz, 1.6A max
Output (DC)	Normal: 14.4V / 14.6V (min: 13.8V)	User Selectable Mode: <ul style="list-style-type: none"> <li>▪ 12V Pb: 14.4V (14.2-14.6V)</li> <li>▪ 24V Pb: 28.8V (28.6-29.0V)</li> <li>▪ 12.8V LFP (4S): 14.6V (14.4-14.8V)</li> <li>▪ 25.6V LFP (8S): 29.2V (29.0-29.4V)</li> </ul>	User Selectable Mode: <ul style="list-style-type: none"> <li>▪ 12V Pb: 14.4V (14.2-14.6V)</li> <li>▪ 24V Pb: 28.8V (28.6-29.0V)</li> <li>▪ 12.8V LFP (4S): 14.6V (14.4-14.8V)</li> <li>▪ 25.6V LFP (8S): 29.2V (29.0-29.4V)</li> </ul>
Charging Current (DC)	1.25A max.	<ul style="list-style-type: none"> <li>▪ 12V Pb: 5A (4.5-5.5A)</li> <li>▪ 24V Pb: 3A (2.7-3.3A)</li> <li>▪ 12.8V LFP (4S): 5A (4.5-5.5A)</li> <li>▪ 25.6V LFP (8S): 3A (2.7-3.3A)</li> </ul>	<ul style="list-style-type: none"> <li>▪ 12V Pb: 8A (7.5-8.5A)</li> <li>▪ 24V Pb: 5A (4.5-5.5A)</li> <li>▪ 12.8V LFP (4S): 8A (7.5-8.5A)</li> <li>▪ 25.6V LFP (8S): 5A (4.5-5.5A)</li> </ul>
Charging Control	LED indicator	LED Display indicators	
Operating Temperature	0°C to +50°C 32°F to +122°F (90%RH non-condensing)	-20°C to +50°C -4°F to +122°F (90%RH non-condensing)	
Storage Temperature	-10°C to +80°C 14°F to +176°F (90%RH non-condensing)	-40°C to +80°C -40°F to +176°F (90%RH non-condensing)	
Cable Length AC-Input	CEE 7/16	120 cm (IEC Global): CEE 7/16 All others available: BS1363 (UK), AS/NZS3112, Plug Type A USA/Japan,...	
Cable Length DC-Output	150 cm   20AWG / 0.5mm <sup>2</sup> with alligator clamps	100 cm with alligator clamps	
Dimensions (mm)	70 x 45 x 30	145 x 65 x 36	170 x 86 x 44
Weight (g)	100	410	820
Advanced Protections	Reverse Polarity, Output Short Circuit, Overcurrent and Over temperature	Reverse Polarity, Output Short Circuit, Overcurrent Input Current (2A fuse), Output Over voltage, Undervoltage, Over Temperature and Battery Back	
Back current drain	<100µA / <0.9W/month		
Protection Degree	IP23 / Class II	IP54 / Class II	
Certifications Standards	<b>FCC, UKCA, CE, RoHS and REACH Compliant.</b> Safety, Emissions and Immunity: IEC/EN60335-1; IEC/EN55014-1; IEC/EN55014-2; IEC/EN61000-3-3; IEC/EN61000-3-2; IEC/EN60335-2-29; IEC/EN60335-1; IEC/EN62233		

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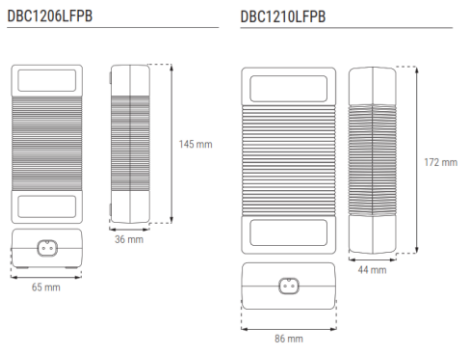
<b>Model</b>	<b>DBC-LFPB-1201   12V</b>
<b>Code</b>	<b>DBC1201LFPB</b>
<b>Part Number</b>	



<b>Model</b>	<b>DBC-LFPB-12406   12/24V</b>	<b>DBC-LFPB-12410   12/24V</b>
<b>Code</b>	<b>DBC12406LFPB</b>	<b>DBC12410LFPB</b>
<b>Part Number</b>		



## DIMENSIONS



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