

# 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

**Carregador universal** para baterias recarregáveis de chumbo-ácido Pb (GEL, AGM, Flooded-WET, MF, Calcium) e de íões de lítio (4S e 8S- LiFePO4, Li-Fe, Li-iron, LFP)

### Descrição

- A série DBC-LFPB™ são carregadores universais de bateria para dar o melhor desempenho. Faça com que as suas baterias recarregáveis sejam sempre carregadas nas melhores condições.
- Concebidos para otimizar a carga das baterias recarregáveis normais de chumbo-ácido Pb (GEL, AGM, Flooded-WET, MF, Calcium) e de íões de lítio (4S e 8S- LiFePO4, Li-Fe, Li-iron, LFP).
- Carregamento com algoritmo inteligente de multe estágio para um carregamento óptimo e uma maior duração da bateria com compensação de temperatura.
- Carregadores de alta eficiência e muito baixa drenagem (<100A/<0,9W/mês)
- O design silencioso, robusto, compacto e leve permite que se ajuste bem em qualquer espaço.
- Fácil e seguro de usar com grampos de bateria fortes e protegidos.
- Alta Eficiência. Muito baixo autoconsumo. Baseado em microcontrolador, obtenha o máximo das suas baterias.
- Proteções totais: curto-circuito, sobre corrente e polaridade inversa.
- Modelos adequados para sistemas de 12V e 24V.
- Visor de LEDs claros e legíveis para uma leitura fácil e rápida do estado.
- Seguro e fiável. Sistema de Compensação de Temperatura integrado e proteções electrónicas automáticas completas.

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

**Algoritmos avançados de carregamento programável com função MODE.** Programar primeiro a tecnologia Lead-Acid (Pb) ou Lithium-Iron (LFP) e depois 12/12.8V e 24/25.6V de tensão de carregamento.



### Available Models:

- |                                         |                                  |      |
|-----------------------------------------|----------------------------------|------|
| • <b>DBC-LFPB-1201</b> for 12V          | Lead Acid-Pb + Lithium-Iron-LFP  | 18W  |
| • <b>DBC-LFPB-12406</b> for 12V and 24V | Lead Acid-Pb + Lithium-Iron -LFP | 100W |
| • <b>DBC-LFPB-12410</b> 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         | DBC1201LFPB                                                                                                                                                                                          | DBC12406LFPB                                                                                                                                                                                                                      | DBC12410LFPB                                                                                                                                                                                                                      |
| 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<br>32°F to +122°F<br>(90%RH non-condensing)                                                                                                                                             | -20°C to +50°C<br>-4°F to +122°F<br>(90%RH non-condensing)                                                                                                                                                                        |                                                                                                                                                                                                                                   |
| Storage Temperature        | -10°C to +80°C<br>14°F to +176°F<br>(90%RH non-condensing)                                                                                                                                           | -40°C to +80°C<br>-40°F to +176°F<br>(90%RH non-condensing)                                                                                                                                                                       |                                                                                                                                                                                                                                   |
| Cable Length AC-Input      | CEE 7/16                                                                                                                                                                                             | 120 cm (IEC Global): CEE 7/16<br>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 86x 44                                                                                                                                                                                                                      |
| Weight (g)                 | 100                                                                                                                                                                                                  | 410                                                                                                                                                                                                                               | 820                                                                                                                                                                                                                               |
| Advanced Protections       | Reverse Polarity, Output Short Circuit, Overcurrent and Over temperature                                                                                                                             | Reverse Polarity, Output Short Circuit, Overcurrent<br>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   | FCC, UKCA, CE, RoHS and REACH Compliant. 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 |                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                   |

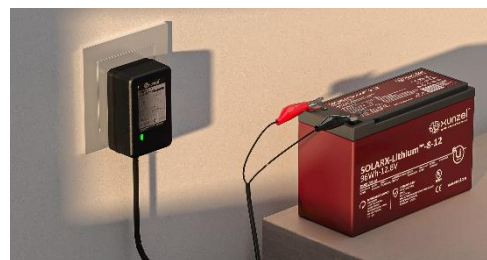
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|                    |                            |  |
|--------------------|----------------------------|--|
| <b>Model</b>       | <b>DBC-LFPB-1201   12V</b> |  |
| <b>Code</b>        | DBC1201LFPB                |  |
| <b>Part Number</b> |     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



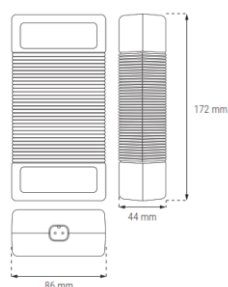
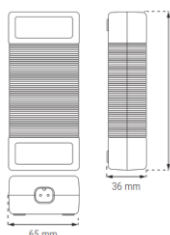
|                    |                                |                                |
|--------------------|--------------------------------|--------------------------------|
| <b>Model</b>       | <b>DBC-LFPB-12406   12/24V</b> | <b>DBC-LFPB-12410   12/24V</b> |
| <b>Code</b>        | DBC12406LFPB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



## DIMENSIONS

DBC1206LFPB

DBC1210LFPB



DBC-LFPB-12406 | 12/24V

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