EFFIC

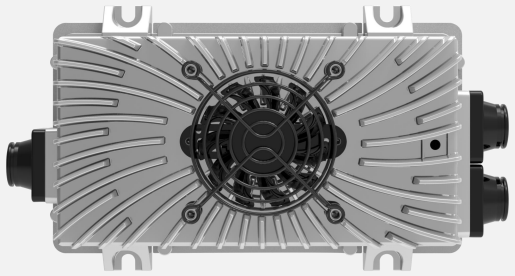
# High Efficiency CHARGER

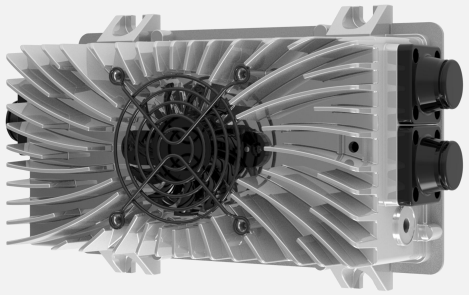
For Lithium Battery / Lead-Acid Battery / Gel Battery




ZheJiang EFFIC Electric Technology Co.,Ltd.

# OBF—600W





| 600W | Model | 24V20A | 48V10A | 72V8A |
|---|---|---|---|---|
| INPUT | AC Voltage | AC100-240V | AC100-240V | AC100-240V |
| | AC Phase | Single Phase | Single Phase | Single Phase |
| | Rated Frequency | 50/60Hz | 50/60Hz | 50/60Hz |
| | Input Current(Max) | ≤2.9A | ≤2.9A | ≤3.3A |
| | Power factor | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| | Input power | ≤646W | ≤641W | ≤727W |
| | AC Plug | L+N+PE | L+N+PE | L+N+PE |
| OUTPUT | Conversion efficiency | ≥ 0.9 | ≥ 0.92 | ≥ 0.92 |
| | Rated output voltage | 24V | 48V | 72V |
| | Rated output current | 20A | 10A | 8A |
| | Rated output power | 576W | 584W | 662W |
| | DC output voltage | 18Vdc ~ 30Vdc | 36Vdc ~ 60Vdc | 56Vdc ~ 84Vdc |
| | Output plug | Customized | Customized | Customized |
| COMM | CAN-BUS | Optional | Optional | Optional |
| | Protocol | Customized | Customized | Customized |
| OTHER | Battery Type | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| | Dimension | 107*190*70.5mm | 107*190*70.5mm | 107*190*70.5mm |
| | Weight | 2KG | 2KG | 2KG |
| | Cooling mode | Air cooling | Air cooling | Air cooling |
| | Ambient Temperature | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C |
| | Working humidity | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% |
| | IP Rating | IP67 | IP67 | IP67 |
| | IP Rating (Optional) | N/A | N/A | N/A |
| | Noise | <65dB | <65dB | <65dB |
| | Altitude | <2000m | <2000m | <2000m |

**More models: 36V14A 60V9A 80V6A**

# OBN—750W





| 750W | Model | 24V25A | 48V15A |
|---|---|---|---|
| INPUT | AC Voltage | AC100-240V | AC100-240V |
| | AC Phase | Single Phase | Single Phase |
| | Rated Frequency | 50/60Hz | 50/60Hz |
| | Input Current(Max) | ≤7.9A | ≤8.9A |
| | Power factor | ≥ 0.69（AC220）/0.53 (AC110) | ≥ 0.69（AC220）/0.53 (AC110) |
| | Input power | ≤835W | ≤940W |
| | AC Plug | L+N+PE | L+N+PE |
| OUTPUT | Conversion efficiency | ≥ 0.87 | ≥ 0.87 |
| | Rated output voltage | 24V | 48V |
| | Rated output current | 25A | 15A |
| | Rated output power | 720W | 810W |
| | DC output voltage | 18Vdc ~ 30Vdc | 36Vdc ~ 60Vdc |
| | Output plug | Customized | Customized |
| COMM | CAN-BUS | - | - |
| | Protocol | Customized | Customized |
| OTHER | Battery Type | Lead-Acid / Lithium | Lead-Acid / Lithium |
| | Dimension | 208*180*165mm | 208*180*165mm |
| | Weight | 4KG | 4KG |
| | Cooling mode | Natural cooling | Natural cooling |
| | Ambient Temperature | -20° C ~ 55° C | -20° C ~ 55° C |
| | Working humidity | 0% ~ 98% | 0% ~ 98% |
| | IP Rating | IP65 | IP65 |
| | IP Rating (Optional) | N/A | N/A |
| | Noise | <65dB | <65dB |
| | Altitude | <2000m | <2000m |

**More models: 60V10A 72V8A 80V6A**

# OBN—1000W






Optional carrying handle

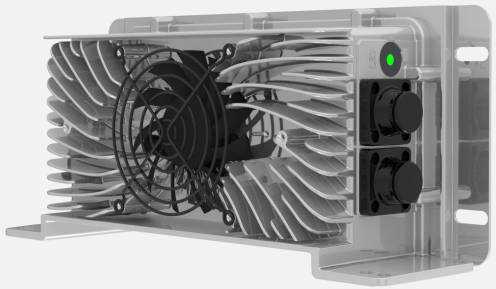



| 1000W | Model | 24V36A | 48V18A |
|---|---|---|---|
| INPUT | AC Voltage | AC180-240V | AC180-240V |
| | AC Phase | Single Phase | Single Phase |
| | Rated Frequency | 50/60Hz | 50/60Hz |
| | Input Current(Max) | ≤5.2A | ≤5.2A |
| | Power factor | ≥ 0.99 | ≥ 0.99 |
| | Input power | ≤1138W | ≤1154W |
| | AC Plug | L+N+PE | L+N+PE |
| OUTPUT | Conversion efficiency | ≥ 0.92 | ≥ 0.92 |
| | Rated output voltage | 24V | 48V |
| | Rated output current | 36A | 18A |
| | Rated output power | 1036W | 1036W |
| | DC output voltage | 18Vdc ~ 30Vdc | 36Vdc ~ 60Vdc |
| | Output plug | Customized | Customized |
| COMM | CAN-BUS | Optional | Optional |
| | Protocol | Customized | Customized |
| OTHER | Battery Type | Lead-Acid / Lithium | Lead-Acid / Lithium |
| | Dimension | 195*180*160mm | 195*180*160mm |
| | Weight | 5KG | 5KG |
| | Cooling mode | Natural cooling | Natural cooling |
| | Ambient Temperature | -20° C ~ 55° C | -20° C ~ 55° C |
| | Working humidity | 0% ~ 100% | 0% ~ 100% |
| | IP Rating | IP67 | IP67 |
| | IP Rating (Optional) | N/A | N/A |
| | Noise | <65dB | <65dB |
| | Altitude | <2000m | <2000m |

**More models: 60V15A 72V10A 80V8A**

# OBF—1200W

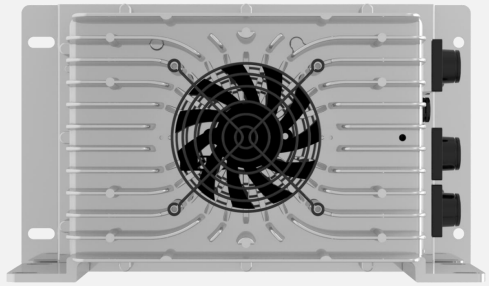




| 1200W | Model | 24V30A | 48V20A | 60V15A | 80V10A |
|---|---|---|---|---|---|
| INPUT | AC Voltage | AC100-240V | AC100-240V | AC100-240V | AC100-240V |
| | AC Phase | Single Phase | Single Phase | Single Phase | Single Phase |
| | Rated Frequency | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| | Input Current(Max) | ≤8.6A | ≤11.7A | ≤10.2A | ≤9A |
| | Power factor | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| | Input power | ≤948W | ≤1282W | ≤1026W | ≤988W |
| | AC Plug | L+N+PE | L+N+PE | L+N+PE | L+N+PE |
| OUTPUT | Conversion efficiency | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| | Rated output voltage | 24V | 48V | 60V | 80V |
| | Rated output current | 30A | 20A@AC220V/15A@AC110V | 15A | 10A |
| | Rated output power | 864W | 1168W | 1026W | 900W |
| | DC output voltage | 18Vdc ~ 30Vdc | 36Vdc ~ 60Vdc | 42Vdc ~ 72Vdc | 62Vdc ~ 92Vdc |
| | Output plug | Customized | Customized | Customized | Customized |
| COMM | CAN-BUS | Optional | Optional | Optional | Optional |
| | Protocol | Customized | Customized | Customized | Customized |
| OTHER | Battery Type | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| | Dimension | 282*128*80mm | 282*128*80mm | 282*128*80mm | 282*128*80mm |
| | Weight | 3KG | 3KG | 3KG | 3KG |
| | Cooling mode | Air cooling | Air cooling | Air cooling | Air cooling |
| | Ambient Temperature | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C |
| | Working humidity | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% |
| | IP Rating | IP67 | IP67 | IP67 | IP67 |
| | IP Rating (Optional) | N/A | N/A | N/A | N/A |
| | Noise | <65dB | <65dB | <65dB | <65dB |
| | Altitude | <2000m | <2000m | <2000m | <2000m |

**More models: 36V25A 72V13A 90V8A**

# OBF—2200W

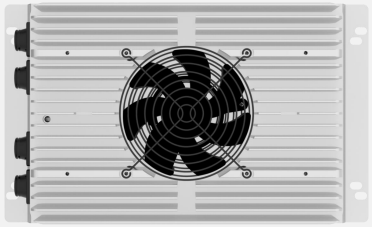




| 2200W | Model | 24V50A | 48V35A | 60V30A | 72V25A |
|---|---|---|---|---|---|
| INPUT | AC Voltage | AC100-240V | AC100-240V | AC100-240V | AC100-240V |
| | AC Phase | Single Phase | Single Phase | Single Phase | Single Phase |
| | Rated Frequency | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| | Input Current(Max) | ≤7.2A | ≤10.2A | ≤12.5A | ≤12.6A |
| | Power factor | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| | Input power | ≤1581W | ≤2244W | ≤2253W | ≤2272W |
| | AC Plug | L+N+PE | L+N+PE | L+N+PE | L+N+PE |
| OUTPUT | Conversion efficiency | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| | Rated output voltage | 24V | 48V | 60V | 72V |
| | Rated output current | 50A@AC220V/30A @AC110V | 35A@AC220V/20A @AC110V | 30A@AC220V/15A @AC110V | 25A@AC220V/13A @AC110V |
| | Rated output power | 1440W | 1044W | 2052W | 2070W |
| | DC output voltage | 18Vdc ~ 30Vdc | 36Vdc ~ 60Vdc | 42Vdc ~ 72Vdc | 56Vdc ~ 84Vdc |
| | Output plug | Customized | Customized | Customized | Customized |
| COMM | CAN-BUS | Optional | Optional | Optional | Optional |
| | Protocol | Customized | Customized | Customized | Customized |
| OTHER | Battery Type | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| | Dimension | 284*168*90mm | 284*168*90mm | 284*168*90mm | 284*168*90mm |
| | Weight | 5KG | 5KG | 5KG | 5KG |
| | Cooling mode | Air cooling | Air cooling | Air cooling | Air cooling |
| | Ambient Temperature | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C |
| | Working humidity | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% |
| | IP Rating | IP67 | IP67 | IP67 | IP67 |
| | IP Rating (Optional) | N/A | N/A | N/A | N/A |
| | Noise | <65dB | <65dB | <65dB | <65dB |
| | Altitude | <2000m | <2000m | <2000m | <2000m |

**More models: 36V40A 80V20A 90V15A**

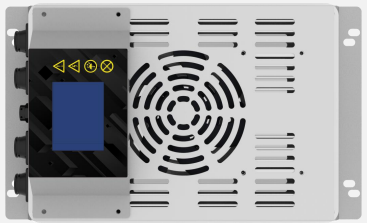
# OBF—3300W





Optional carrying handle / display

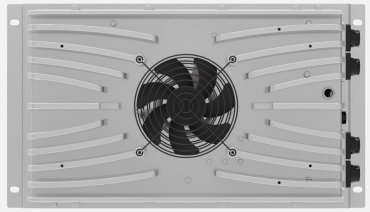




| 3300W | Model | 24V100A | 36V70A | 48V50A | 72V35A | 96V30A |
|---|---|---|---|---|---|---|
| INPUT | AC Voltage | AC100-240V | AC100-240V | AC100-240V | AC100-240V | AC100-240V |
| | AC Phase | Single Phase | Single Phase | Single Phase | Single Phase | Single Phase |
| | Rated Frequency | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| | Input Current(Max) | ≤14.4A | ≤15.1A | ≤14.3A | ≤14.2A | ≤15.8A |
| | Power factor | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| | Input power | ≤3162W | ≤3320W | ≤3137W | ≤3114W | ≤3481W |
| | AC Plug | L+N+PE | L+N+PE | L+N+PE | L+N+PE | L+N+PE |
| OUTPUT | Conversion efficiency | ≥ 0.92 | ≥ 0.92 | ≥ 0.94 | ≥ 0.94 | ≥ 0.94 |
| | Rated output voltage | 24V | 36V | 48V | 72V | 96V |
| | Rated output current | 100A@AC220V/ 50A@AC110V | 70A@AC220V/3 5A@AC110V | 50A@AC220V/2 5A@AC110V | 40A@AC220V/2 0A@AC110V | 30A@AC220V/1 5A@AC110V |
| | Rated output power | 2880W | 3024W | 2920W | 2898W | 3240W |
| | DC output voltage | 18Vdc ~ 30Vdc | 28Vdc ~ 45Vdc | 36Vdc ~ 60Vdc | 56Vdc ~ 84Vdc | 75Vdc ~ 111Vdc |
| | Output plug | Customized | Customized | Customized | Customized | Customized |
| COMM | CAN-BUS | Optional | Optional | Optional | Optional | Optional |
| | Protocol | Customized | Customized | Customized | Customized | Customized |
| OTHER | Battery Type | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| | Dimension | 348*211*104mm | 348*211*104mm | 348*211*104mm | 348*211*104mm | 348*211*104mm |
| | Weight | 10KG | 10KG | 10KG | 10KG | 10KG |
| | Cooling mode | Air cooling | Air cooling | Air cooling | Air cooling | Air cooling |
| | Ambient Temperature | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C |
| | Working humidity | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% |
| | IP Rating | IP67 | IP67 | IP67 | IP67 | IP67 |
| | IP Rating (Optional) | N/A | N/A | N/A | N/A | N/A |
| | Noise | <65dB | <65dB | <65dB | <65dB | <65dB |
| | Altitude | <2000m | <2000m | <2000m | <2000m | <2000m |

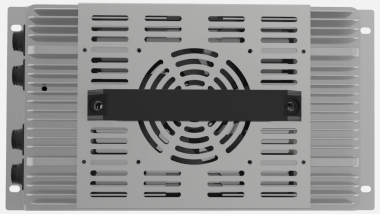
**More models: 60V42A 90V33A 80V34A**

# OBF—6600W





Optional carrying handle / display





| 6600W | Model | 48V100A | 80V70A | 96V60A |
|---|---|---|---|---|
| INPUT | AC Voltage | AC380V±15% | AC380V±15% | AC380V±15% |
| | AC Phase | Three phase four wire | Three phase four wire | Three phase four wire |
| | Rated Frequency | 50/60Hz | 50/60Hz | 50/60Hz |
| | Input Current(Max) | ≤9.5A | ≤10.3A | ≤12.4A |
| | Power factor | ≥ 0.94 | ≥ 0.94 | ≥ 0.94 |
| | Input power | <=6275W | <=6769W | <=6963W |
| | AC Plug | Three Phase + PE | Three Phase + PE | Three Phase + PE |
| OUTPUT | Conversion efficiency | ≥ 0.94 | ≥ 0.94 | ≥ 0.94 |
| | Rated output voltage | 48V | 80V | 96V |
| | Rated output current | 100A | 70A | 60A |
| | Rated output power | 5840W | 6300W | 6480W |
| | DC output voltage | 36Vdc ~ 60Vdc | 63Vdc ~ 94Vdc | 75Vdc ~ 111Vdc |
| | Output plug | Customized | Customized | Customized |
| COMM | CAN-BUS | Optional | Optional | Optional |
| | Protocol | Customized | Customized | Customized |
| OTHER | Battery Type | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| | Dimension | 442*252*122mm | 442*252*122mm | 442*252*122mm |
| | Weight | 16KG | 16KG | 16KG |
| | Cooling mode | Air cooling | Air cooling | Air cooling |
| | Ambient Temperature | -20° C ~ 55° C | -20° C ~ 55° C | -20° C ~ 55° C |
| | Working humidity | 0% ~ 100% | 0% ~ 100% | 0% ~ 100% |
| | IP Rating | IP67 | IP67 | IP67 |
| | IP Rating (Optional) | N/A | N/A | N/A |
| | Noise | <65dB | <65dB | <65dB |
| | Altitude | <2000m | <2000m | <2000m |

**More models: 60V80A 72V75A 90V55A**

# CHB—1.8KW





| 1800W | 24V50A | 24V60A | 48V30A | 60V25A | 72V20A |
|---|---|---|---|---|---|
| **AC Voltage** | AC220V±15% | AC220V±15% | AC220V±15% | AC220V±15% | AC220V±15% |
| **AC Phase** | Single Phase | Single Phase | Single Phase | Single Phase | Single Phase |
| **Rated Frequency** | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| **Input Current(Max)** | ≤10.3A | ≤12.5A | ≤12.4A | ≤15.8A | ≤15.8A |
| **Power factor** | ≥ 0.7 | ≥ 0.7 | ≥ 0.7 | ≥ 0.7 | ≥ 0.7 |
| **Input power** | ≤2285W | ≤2742W | ≤2742W | ≤2897W | ≤2871W |
| **AC Plug** | L+N+PE | L+N+PE | L+N+PE | L+N+PE | L+N+PE |
| **Conversion efficiency** | ≥ 0.9 | ≥ 0.9 | ≥ 0.9 | ≥ 0.9 | ≥ 0.9 |
| **Rated output voltage** | 24V | 24V | 48V | 60V | 72V |
| **Rated output current** | 50A | 60A | 30A | 25A | 20A |
| **Rated output power** | 1440W | 1728W | 1728W | 1825W | 1752W |
| **DC output voltage** | 10Vdc ~ 32Vdc | 10Vdc ~ 32Vdc | 10Vdc ~ 60Vdc | 10Vdc ~ 75Vdc | 10Vdc ~ 100Vdc |
| **Output plug** | Customized | Customized | Customized | Customized | Customized |
| **CAN-BUS** | Optional | Optional | Optional | Optional | Optional |
| **Protocol** | Customized | Customized | Customized | Customized | Customized |
| **Battery Type** | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| **Dimension** | 350X200X160(mm) | 350X200X160(mm) | 350X200X160(mm) | 350X200X160(mm) | 350X200X160(mm) |
| **Weight** | 6KG | 6KG | 6KG | 6KG | 6KG |
| **Cooling mode** | Air cooling | Air cooling | Air cooling | Air cooling | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| **IP Rating** | IP20 | IP20 | IP20 | IP20 | IP20 |
| **IP Rating (Optional)** | IP54 | IP54 | IP54 | IP54 | IP54 |
| **Noise** | <65dB | <65dB | <65dB | <65dB | <65dB |
| **Altitude** | <2000m | <2000m | <2000m | <2000m | <2000m |

**More models: 36V40A 80V15A 90V13A**

# CHB—3KW







| 3000W | 24V100A | 36V50A | 48V50A | 72V35A |
|---|---|---|---|---|
| **AC Voltage** | AC100-240V | AC100-240V | AC100-240V | AC100-240V |
| **AC Phase** | Single Phase | Single Phase | Single Phase | Single Phase |
| **Rated Frequency** | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| **Input Current(Max)** | ≤14.5A | ≤10.8A | ≤14.5A | ≤15.4A |
| **Power factor** | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| **Input power** | ≤ 3196W | ≤2397W | ≤ 3196W | ≤ 3403W |
| **AC Plug** | L+N+PE | L+N+PE | L+N+PE | L+N+PE |
| **Conversion efficiency** | ≥ 0.91 | ≥ 0.91 | ≥ 0.91 | ≥ 0.91 |
| **Rated output voltage** | 24V | 36V | 48V | 72V |
| **Rated output current** | 100A | 50A | 50A | 35A |
| **Rated output power** | 2880W | 2160W | 2880W | 3066W |
| **DC output voltage** | 10Vdc ~ 32Vdc | 10Vdc ~ 60Vdc | 10Vdc ~ 60Vdc | 10Vdc ~ 100Vdc |
| **Output plug** | Customized | Customized | Customized | Customized |
| **CAN-BUS** | Optional | Optional | Optional | Optional |
| **Protocol** | Customized | Customized | Customized | Customized |
| **Battery Type** | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| **Dimension** | 400x172x302(mm) | 400x172x302(mm) | 400x172x302(mm) | 400x172x302(mm) |
| **Weight** | 11KG | 11KG | 11KG | 11KG |
| **Cooling mode** | Air cooling | Air cooling | Air cooling | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| **IP Rating** | IP20 | IP20 | IP20 | IP20 |
| **IP Rating (Optional)** | IP54 | IP54 | IP54 | IP54 |
| **Noise** | <65dB | <65dB | <65dB | <65dB |
| **Altitude** | <2000m | <2000m | <2000m | <2000m |

**More models: 60V40A 80V30A 90V25A**

# CHB—3KWx2






| 6000W | 24V150A | 24V200A | 48V100V | 80V65A |
|---|---|---|---|---|
| **AC Voltage** | AC100-240V | AC100-240V | AC100-240V | AC100-240V |
| **AC Phase** | Single Phase | Single Phase | Single Phase | Single Phase |
| **Rated Frequency** | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| **Input Current(Max)** | ≤22A | ≤29A | ≤29A | ≤29A |
| **Power factor** | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| **Input power** | ≤ 4700W | ≤6300W | ≤ 6300W | ≤ 6200W |
| **AC Plug** | L+N+PE | L+N+PE | L+N+PE | L+N+PE |
| **Conversion efficiency** | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| **Rated output voltage** | 24V | 24V | 48V | 80V |
| **Rated output current** | 150A | 200A | 100A | 65A |
| **Rated output power** | 4320W | 5760W | 5760W | 5700W |
| **DC output voltage** | 10Vdc ~ 32Vdc | 10Vdc ~ 32Vdc | 10Vdc ~ 60Vdc | 10Vdc ~ 100Vdc |
| **Output plug** | Customized | Customized | Customized | Customized |
| **CAN-BUS** | Optional | Optional | Optional | Optional |
| **Protocol** | Customized | Customized | Customized | Customized |
| **Battery Type** | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| **Dimension** | 403X375X482(mm) | 403X375X482(mm) | 403X375X482(mm) | 403X375X482(mm) |
| **Weight** | 30KG | 30KG | 30KG | 30KG |
| **Cooling mode** | Air cooling | Air cooling | Air cooling | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| **IP Rating** | IP20 | IP20 | IP20 | IP20 |
| **IP Rating (Optional)** | IP54 | IP54 | IP54 | IP54 |
| **Noise** | <65dB | <65dB | <65dB | <65dB |
| **Altitude** | <2000m | <2000m | <2000m | <2000m |

**More models: 60V80A 80V60A 90V50A**

# CHB—7KW







| 7000W | 36V100A | 48V100A | 80V70A | 96V60A | 115.2V50A |
|---|---|---|---|---|---|
| AC Voltage | AC380V±15% | AC380V±15% | AC380V±15% | AC380V±15% | AC380V±15% |
| AC Phase | Three phase four wire | Three phase four wire | Three phase four wire | Three phase four wire | Three phase four wire |
| Rated Frequency | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| Input Current(Max) | ≤7.2A | ≤7.6A | ≤11A | ≤11.7A | ≤10.8A |
| Power factor | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| Input power | ≤4743W | ≤ 6324W | ≤ 7200W | ≤ 7700W | ≤ 7100W |
| AC Plug | Three Phase + PE | Three Phase + PE | Three Phase + PE | Three Phase + PE | Three Phase + PE |
| Conversion efficiency | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| Rated output voltage | 36V | 48V | 80V | 96V | 115.2V |
| Rated output current | 100A | 100A | 70A | 60A | 50A |
| Rated output power | 4320W | 5700W | 6500W | 7000W | 6500W |
| DC output voltage | 10Vdc ~ 60Vdc | 10Vdc ~ 60Vdc | 10Vdc ~ 100Vdc | 10Vdc ~ 110Vdc | 10Vdc ~ 132Vdc |
| Output plug | Customized | Customized | Customized | Customized | Customized |
| CAN-BUS | Optional | Optional | Optional | Optional | Optional |
| Protocol | Customized | Customized | Customized | Customized | Customized |
| Battery Type | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| Dimension | 400X221X385(mm) | 400X221X385(mm) | 400X221X385(mm) | 400X221X385(mm) | 400X221X385(mm) |
| Weight | 19KG | 19KG | 19KG | 19KG | 19KG |
| Cooling mode | Air cooling | Air cooling | Air cooling | Air cooling | Air cooling |
| Ambient Temperature | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| Working humidity | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| IP Rating | IP20 | IP20 | IP20 | IP20 | IP20 |
| IP Rating (Optional) | IP54 | IP54 | IP54 | IP54 | IP54 |
| Noise | <65dB | <65dB | <65dB | <65dB | <65dB |
| Altitude | <2000m | <2000m | <2000m | <2000m | <2000m |

**更多型号：60V80A 72V75A 90V65A**

# CHB—10KW







| 10000W | 48V150A | 80V100A | 96V100A | 153.6V50A |
|---|---|---|---|---|
| **AC Voltage** | AC380V±15% | AC380V±15% | AC480V±15% | AC380V±15% |
| **AC Phase** | Three phase four wire | Three phase four wire | Three phase four wire | Three phase four wire |
| **Rated Frequency** | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| **Input Current(Max)** | ≤14.4A | ≤14.5A | ≤14.3A | ≤14.4A |
| **Power factor** | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| **Input power** | ≤ 9500W | ≤9600W | ≤11900W | ≤9500W |
| **AC Plug** | Three Phase + PE | Three Phase + PE | Three Phase + PE | Three Phase + PE |
| **Conversion efficiency** | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| **Rated output voltage** | 48V | 80V | 96V | 153.6V |
| **Rated output current** | 150A | 100A | 100A | 50A |
| **Rated output power** | 8600W | 8700W | 10800KW | 8600W |
| **DC output voltage** | 10Vdc ~ 60Vdc | 10Vdc ~ 100Vdc | 10Vdc ~ 110Vdc | 10Vdc ~ 176Vdc |
| **Output plug** | Customized | Customized | Customized | Customized |
| **CAN-BUS** | Optional | Optional | Optional | Optional |
| **Protocol** | Customized | Customized | Customized | Customized |
| **Battery Type** | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| **Dimension** | 400X221X385(mm) | 400X221X385(mm) | 400X221X385(mm) | 400X221X385(mm) |
| **Weight** | 19KG | 19KG | 19KG | 19KG |
| **Cooling mode** | Air cooling | Air cooling | Air cooling | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| **IP Rating** | IP20 | IP20 | IP20 | IP20 |
| **IP Rating (Optional)** | IP54 | IP54 | IP54 | IP54 |
| **Noise** | <65dB | <65dB | <65dB | <65dB |
| **Altitude** | <2000m | <2000m | <2000m | <2000m |

**更多型号：60V140A 72V120A 90V95A**

# CHB—7KWx2






| 14000W | 36V200A | 48V200A | 80V150A | 115.2V100A | 153.6V70A |
|---|---|---|---|---|---|
| **AC Voltage** | AC380V±15% | AC380V±15% | AC380V±15% | AC380V±15% | AC380V±15% |
| **AC Phase** | Three phase four wire | Three phase four wire | Three phase four wire | Three phase four wire | Three phase four wire |
| **Rated Frequency** | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| **Input Current(Max)** | ≤14.4A | ≤18A | ≤22A | ≤21.6A | ≤20.1A |
| **Power factor** | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| **Input power** | ≤9.5KW | ≤11.8KW | ≤14.4KW | ≤14.2KW | ≤ 13.3KW |
| **AC Plug** | Three Phase + PE | Three Phase + PE | Three Phase + PE | Three Phase + PE | Three Phase + PE |
| **Conversion efficiency** | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| **Rated output voltage** | 36V | 48V | 80V | 115.2V | 153.6V |
| **Rated output current** | 200A | 200A | 150A | 100A | 70A |
| **Rated output power** | 8640W | 10800W | 13100W | 13000W | 12100KW |
| **DC output voltage** | 10Vdc ~ 60Vdc | 10Vdc ~ 60Vdc | 10Vdc ~ 100Vdc | 10Vdc ~ 132Vdc | 10Vdc ~ 176Vdc |
| **Output plug** | Customized | Customized | Customized | Customized | Customized |
| **CAN-BUS** | Optional | Optional | Optional | Optional | Optional |
| **Protocol** | Customized | Customized | Customized | Customized | Customized |
| **Battery Type** | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| **Dimension** | 403X418X482(mm) | 403X418X482(mm) | 403X418X482(mm) | 403X418X482(mm) | 403X418X482(mm) |
| **Weight** | 38KG | 38KG | 38KG | 38KG | 38KG |
| **Cooling mode** | Air cooling | Air cooling | Air cooling | Air cooling | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| **IP Rating** | IP20 | IP20 | IP20 | IP20 | IP20 |
| **IP Rating (Optional)** | IP54 | IP54 | IP54 | IP54 | IP54 |
| **Noise** | <65dB | <65dB | <65dB | <65dB | <65dB |
| **Altitude** | <2000m | <2000m | <2000m | <2000m | <2000m |

更多型号：60V160A 72V150A 90V130A

# CHB—10KWx2







| 20000W | 80V200A | 96V200A | 153.6V100A |
|---|---|---|---|
| **AC Voltage** | AC380V±15% | AC480V±15% | AC380V±15% |
| **AC Phase** | Three phase four wire | Three phase four wire | Three phase four wire |
| **Rated Frequency** | 50/60Hz | 50/60Hz | 50/60Hz |
| **Input Current(Max)** | ≤29A | ≤28.5A | ≤28.8A |
| **Power factor** | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| **Input power** | ≤19.2KW | ≤23.7KW | ≤19KW |
| **AC Plug** | Three Phase + PE | Three Phase + PE | Three Phase + PE |
| **Conversion efficiency** | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| **Rated output voltage** | 80V | 96V | 153.6V |
| **Rated output current** | 200A | 200A | 100A |
| **Rated output power** | 17.5KW | 21.6KW | 17KW |
| **DC output voltage** | 10Vdc～100Vdc | 10Vdc～110Vdc | 10Vdc～176Vdc |
| **Output plug** | Customized | Customized | Customized |
| **CAN-BUS** | Optional | Optional | Optional |
| **Protocol** | Customized | Customized | Customized |
| **Battery Type** | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| **Dimension** | 403X418X482(mm) | 403X418X482(mm) | 403X418X482(mm) |
| **Weight** | 40KG | 40KG | 40KG |
| **Cooling mode** | Air cooling | Air cooling | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| **IP Rating** | IP20 | IP20 | IP20 |
| **IP Rating (Optional)** | IP54 | IP54 | IP54 |
| **Noise** | <65dB | <65dB | <65dB |
| **Altitude** | <2000m | <2000m | <2000m |

**更多型号：60V280A 72V240A 90V190A**

# CHB—7KWx3





| 21000W | 48V250A | 48V300A | 80V150A |
|---|---|---|---|
| **AC Voltage** | AC220V±15% | AC220V±15% | AC220V±15% |
| **AC Phase** | Three phase four wire | Three phase four wire | Three phase four wire |
| **Rated Frequency** | 50/60Hz | 50/60Hz | 50/60Hz |
| **Input Current(Max)** | ≤41.5A | ≤50A | ≤37.9A |
| **Power factor** | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| **Input power** | ≤ 15.8KW | ≤ 19KW | ≤ 14.4KW |
| **AC Plug** | Three Phase + PE | Three Phase + PE | Three Phase + PE |
| **Conversion efficiency** | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| **Rated output voltage** | 48V | 48V | 80V |
| **Rated output current** | 250A | 300A | 150A |
| **Rated output power** | 14.4KW | 17.2KW | 13KW |
| **DC output voltage** | 10Vdc ~ 60Vdc | 10Vdc ~ 60Vdc | 10Vdc ~ 100Vdc |
| **Output plug** | Customized | Customized | Customized |
| **CAN-BUS** | Optional | Optional | Optional |
| **Protocol** | Customized | Customized | Customized |
| **Battery Type** | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| **Dimension** | 403X418X627(mm) | 403X418X627(mm) | 403X418X627(mm) |
| **Weight** | 55KG | 55KG | 55KG |
| **Cooling mode** | Air cooling | Air cooling | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| **IP Rating** | IP20 | IP20 | IP20 |
| **IP Rating (Optional)** | IP54 | IP54 | IP54 |
| **Noise** | <65dB | <65dB | <65dB |
| **Altitude** | <2000m | <2000m | <2000m |

**More models: 60V240A 72V225A 90V195A**

# CHB—10KWx3







| 30000W | 80V250A | 80V250A | 80V300A | 153.6V150A |
|---|---|---|---|---|
| **AC Voltage** | AC380V±15% | AC480V±15% | AC480V±15% | AC380V±15% |
| **AC Phase** | Three phase four wire | Three phase four wire | Three phase four wire | Three phase four wire |
| **Rated Frequency** | 50/60Hz | 50/60Hz | 50/60Hz | 50/60Hz |
| **Input Current(Max)** | ≤36.5A | ≤28.9A | ≤34.7A | ≤43.2A |
| **Power factor** | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 | ≥ 0.99 |
| **Input power** | ≤ 24KW | ≤ 24KW | ≤ 28.8KW | ≤ 28.4KW |
| **AC Plug** | Three Phase + PE | Three Phase + PE | Three Phase + PE | Three Phase + PE |
| **Conversion efficiency** | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 | ≥ 0.92 |
| **Rated output voltage** | 80V | 80V | 80V | 153.6V |
| **Rated output current** | 250A | 250A | 300A | 150A |
| **Rated output power** | 21.9KW | 21.9KW | 26.2KW | 26KW |
| **DC output voltage** | 10Vdc～100Vdc | 10Vdc～100Vdc | 10Vdc～100Vdc | 10Vdc～176Vdc |
| **Output plug** | Customized | Customized | Customized | Customized |
| **CAN-BUS** | Optional | Optional | Optional | Optional |
| **Protocol** | Customized | Customized | Customized | Customized |
| **Battery Type** | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium | Lead-Acid / Lithium |
| **Dimension** | 403X418X627(mm) | 403X418X627(mm) | 403X418X627(mm) | 403X418X627(mm) |
| **Weight** | 55KG | 55KG | 55KG | 55KG |
| **Cooling mode** | Air cooling | Air cooling | Air cooling | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% | 0% ~ 95% |
| **IP Rating** | IP20 | IP20 | IP20 | IP20 |
| **IP Rating (Optional)** | IP54 | IP54 | IP54 | IP54 |
| **Noise** | <65dB | <65dB | <65dB | <65dB |
| **Altitude** | <2000m | <2000m | <2000m | <2000m |

**More models: 60V420A 72V360A 90V285A**

# CHB—7KWx4





| 28000W | 80V250A |
|---|---|
| **AC Voltage** | AC220V±15% |
| **AC Phase** | Three phase four wire |
| **Rated Frequency** | 50/60Hz |
| **Input Current(Max)** | ≤63A |
| **Power factor** | ≥ 0.99 |
| **Input power** | ≤ 24KW |
| **AC Plug** | Three Phase + PE |
| **Conversion efficiency** | ≥ 0.92 |
| **Rated output voltage** | 80V |
| **Rated output current** | 250A |
| **Rated output power** | 21.9KW |
| **DC output voltage** | 10Vdc ~ 100Vdc |
| **Output plug** | Customized |
| **CAN-BUS** | Optional |
| **Protocol** | Customized |
| **Battery Type** | Lead-Acid / Lithium |
| **Dimension** | 402X366X832(mm) |
| **Weight** | 55KG |
| **Cooling mode** | Air cooling |
| **Ambient Temperature** | -20° C ~ 50° C |
| **Working humidity** | 0% ~ 95% |
| **IP Rating** | IP20 |
| **IP Rating (Optional)** | IP54 |
| **Noise** | <65dB |
| **Altitude** | <2000m |