

DC/DC-Wandler / DC/DC-converters

EN50155 + EN45545-2

**Ausgangsspannung:** / output voltage  $\pm 2\%$   
**Overload:** 105 -135% rated output power  
**Protection type:** Constant current limiting, recovers automatically after fault condition is removed  
 Shut down o/p voltage, re-power on to recover  
**Working temperature:** -40°C bis +55°C (no derating); +70°C @ 60% load free air convection; +70°C (no derating with external base plate)  
**Working humidity:** 5 – 95% RH non-condensing  
**Vibration:** 10-500Hz, 5G 10 min./1cycle, 60min. each along X,Y,Z axes; mounting: compliance to IEC61373  
**Safety Standards:** EAC TP TC 004 approved IEC60950-1 (LVD)  
**Withstand Voltage:** I/P-O/P: 4 kV DC, I/P-FG: 2,5 kV DC, O/P-FG: 2,5 kV DC  
**Isolation Resistance I/P-O/P, I/P-FG, O/P-FG:** 100 MOhm / 500 V DC / 25°C / 70% RH  
**Railway Standard: Compliance to EN45545-2, EN50155 / IEC60571 including IEC61373, EN50121-3-2**  
 Es muss sichergestellt werden, dass genügend Platz für die Konvektionskühlung rund um das Netzteil vorhanden ist. /  
 It must be ensured that there is enough space for the convection cooling around the power supply.

GOGAPLUS DCW-MWG30

**MTBF:** 396,9K hrs min., MIL-HDBK-217F (25°C)  
**Abmessungen / dimensions:** 113 x 60 x 25 mm  
**Gewicht / notice:** 0,25 kg

| Typ<br>type      | Eingang<br>V <sub>DC</sub><br>input voltage | Ausgang<br>V <sub>DC</sub><br>output voltage | Strom<br>A<br>current | Leistung<br>W<br>power | Leistungsgrad<br>%<br>performance level | ArtNr      | €/Stk.<br>/pc. |
|------------------|---|--|-----------------------|------------------------|---|------------|----------------|
| DCW-MWG30-24-3   | 9 - 36                                      | 3,3  | 6                     | 19,8                   | 84                                      | 462240-24  | 69,90          |
| DCW-MWG30-24-5   |   | 5  | 6                     | 30                     | 85                                      | 462241-24  | 65,80          |
| DCW-MWG30-24-12  |   | 12   | 2,5                   | 30                     | 86,5                                    | 462243-24  | 65,80          |
| DCW-MWG30-24-24  |   | 24   | 1,25                  | 30                     | 89                                      | 462246-24  | 65,80          |
| DCW-MWG30-48-3   | 18 - 72                                     | 3,3  | 6                     | 19,8                   | 84                                      | 462240-48  | 69,90          |
| DCW-MWG30-48-5   |   | 5  | 6                     | 30                     | 86                                      | 462241-48  | 65,80          |
| DCW-MWG30-48-12  |   | 12   | 2,5                   | 30                     | 90                                      | 462243-48  | 62,40          |
| DCW-MWG30-48-24  |   | 24   | 1,25                  | 30                     | 91                                      | 462246-48  | 65,80          |
| DCW-MWG30-110-3  | 40-160                                      | 3,3  | 6                     | 19,8                   | 87                                      | 462240-110 | 69,90          |
| DCW-MWG30-110-5  |   | 5  | 6                     | 30                     | 89                                      | 462241-110 | 65,80          |
| DCW-MWG30-110-12 |   | 12   | 2,5                   | 30                     | 89                                      | 462243-110 | 65,80          |
| DCW-MWG30-110-24 |   | 24   | 1,25                  | 30                     | 89                                      | 462246-110 | 65,80          |



GOGAPLUS DCW-MWG60

**MTBF:** 593,8K hrs min., MIL-HDBK-217F (25°C)  
**Abmessungen / dimensions:** 128 x 60 x 25 mm  
**Gewicht / notice:** 0,29 kg

| Typ<br>type      | Eingang<br>V <sub>DC</sub><br>input voltage | Ausgang<br>V <sub>DC</sub><br>output voltage | Strom<br>A<br>current | Leistung<br>W<br>power | Leistungsgrad<br>%<br>performance level | ArtNr      | €/Stk.<br>/pc. |
|------------------|---|--|-----------------------|------------------------|---|------------|----------------|
| DCW-MWG60-24-3   | 9 - 36                                      | 3,3  | 12                    | 39,6                   | 86,5                                    | 462250-24  | 88,60          |
| DCW-MWG60-24-5   |   | 5  | 12                    | 60                     | 88                                      | 462251-24  | 83,70          |
| DCW-MWG60-24-12  |   | 12   | 5                     | 60                     | 92                                      | 462253-24  | 75,00          |
| DCW-MWG60-24-24  |   | 24   | 2,5                   | 60                     | 90                                      | 462256-24  | 83,70          |
| DCW-MWG60-48-3   | 18 - 72                                     | 3,3  | 12                    | 39,6                   | 88,5                                    | 462250-48  | 88,60          |
| DCW-MWG60-48-5   |   | 5  | 12                    | 60                     | 89                                      | 462251-48  | 83,70          |
| DCW-MWG60-48-12  |   | 12   | 5                     | 60                     | 93                                      | 462253-48  | 83,70          |
| DCW-MWG60-48-24  |   | 24   | 2,5                   | 60                     | 91,5                                    | 462256-48  | a.A.           |
| DCW-MWG60-110-3  | 40 - 160                                    | 3,3  | 12                    | 39,6                   | 87,5                                    | 462250-110 | a.A.           |
| DCW-MWG60-110-5  |   | 5  | 12                    | 60                     | 89                                      | 462251-110 | a.A.           |
| DCW-MWG60-110-12 |   | 12   | 5                     | 60                     | 92,5                                    | 462253-110 | a.A.           |
| DCW-MWG60-110-24 |   | 24   | 2,5                   | 60                     | 91,5                                    | 462256-110 | a.A.           |



a. A. = auf Anfrage / upon request

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EN50155 + EN45545-2

**Ausgangsspannung:** / output voltage  $\pm 2\%$

**Overload:** 105 -135% rated output power

**Protection type:** Constant current limiting, recovers automatically after fault condition is removed

Shut down o/p voltage, re-power on to recover

**Working temperature:** -40°C bis +55°C (no derating); +70°C @ 60% load free air convection; +70°C (no derating with external base plate)

**Working humidity:** 5 – 95% RH non-condensing

**Vibration:** 10-500Hz, 5G 10 min./1cycle, 60min. each along X,Y,Z axes; mounting: compliance to IEC61373

**Safety Standards:** EAC TP TC 004 approved IEC60950-1 (LVD)

**Withstand Voltage:** I/P-O/P: 4 kV DC, I/P-FG: 2,5 kV DC, O/P-FG: 2,5 kV DC

**Isolation Resistance I/P-O/P, I/P-FG, O/P-FG:** 100 MOhm / 500 V DC / 25°C / 70% RH

**Railway Standard: Compliance to EN45545-2, EN50155 / IEC60571 including IEC61373, EN50121-3-2**

Es muss sichergestellt werden, dass genügend Platz für die Konvektionskühlung rund um das Netzteil vorhanden ist. /

It must be ensured that there is enough space for the convection cooling around the power supply.

GOGAPLUS DCW-MWG100

**MTBF:** 254,1K hrs min., MIL-HDBK-217F (25°C)

**Abmessungen / dimensions:** 161 x 68 x 36 mm

**Gewicht / notice:** 0,60 kg

| Typ<br>type       | Eingang<br>V <sub>DC</sub><br>input voltage | Ausgang<br>V <sub>DC</sub><br>output voltage | Strom<br>A<br>current | Leistung<br>W<br>power | Leistungsgrad<br>%<br>performance level | ArtNr      | €/Stk.<br>/pc. |
|-------------------|---|--|-----------------------|------------------------|---|------------|----------------|
| DCW-MWG100-24-5   |   | 5  | 20                    | 100                    | 88                                      | 462261-24  | 155,00         |
| DCW-MWG100-24-12  | 16,8 - 31,2                                 | 12   | 8,4                   | 100,8                  | 89                                      | 462263-24  | 145,70         |
| DCW-MWG100-24-24  |   | 24   | 4,2                   | 100,8                  | 89                                      | 462266-24  | 136,40         |
| DCW-MWG100-48-5   |   | 5  | 20                    | 100                    | 89                                      | 462261-48  | 155,00         |
| DCW-MWG100-48-12  | 33,6 - 62,4                                 | 12   | 8,4                   | 100,8                  | 91                                      | 462263-48  | 155,00         |
| DCW-MWG100-48-24  |   | 24   | 4,2                   | 100,8                  | 91                                      | 462266-48  | 145,70         |
| DCW-MWG100-110-5  |   | 5  | 20                    | 100                    | 89,5                                    | 462261-110 | 155,00         |
| DCW-MWG100-110-12 | 67,2 - 143                                  | 12   | 8,4                   | 100,8                  | 91                                      | 462263-110 | 155,00         |
| DCW-MWG100-110-24 |   | 24   | 4,2                   | 100,8                  | 90                                      | 462266-110 | 145,70         |



GOGAPLUS DCW-MWG150

**MTBF:** 223,2K hrs min., MIL-HDBK-217F (25°C)

**Abmessungen / dimensions:** 189 x 77 x 36 mm

**Gewicht / notice:** 0,80 kg

| Typ<br>type       | Eingang<br>V <sub>DC</sub><br>input voltage | Ausgang<br>V <sub>DC</sub><br>output voltage | Strom<br>A<br>current | Leistung<br>W<br>power | Leistungsgrad<br>%<br>performance level | ArtNr      | €/Stk.<br>/pc. |
|-------------------|---|--|-----------------------|------------------------|---|------------|----------------|
| DCW-MWG150-24-5   |   | 5  | 30                    | 150                    | 89                                      | 462271-24  | 200,00         |
| DCW-MWG150-24-12  | 16,8 - 31,2                                 | 12   | 12,5                  | 150                    | 90                                      | 462273-24  | 189,00         |
| DCW-MWG150-24-24  |   | 24   | 6,3                   | 151,2                  | 90                                      | 462276-24  | 200,00         |
| DCW-MWG150-48-5   |   | 5  | 30                    | 150                    | 90                                      | 462271-48  | 220,00         |
| DCW-MWG150-48-12  | 33,6 - 62,4                                 | 12   | 12,5                  | 150                    | 92                                      | 462273-48  | 200,00         |
| DCW-MWG150-48-24  |   | 24   | 6,3                   | 151,2                  | 91                                      | 462276-48  | 189,00         |
| DCW-MWG150-110-5  |   | 5  | 30                    | 150                    | 90                                      | 462271-110 | 200,00         |
| DCW-MWG150-110-12 | 67,2 - 143                                  | 12   | 12,5                  | 150                    | 92                                      | 462273-110 | 189,00         |
| DCW-MWG150-110-24 |   | 24   | 6,3                   | 151,2                  | 91                                      | 462276-110 | 200,00         |



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EN50155 + EN45545-2

**Ausgangsspannung:** / output voltage  $\pm 2\%$   
**Overload:** 105 -135% rated output power  
**Protection type:** Constant current limiting, recovers automatically after fault condition is removed  
 Shut down o/p voltage, re-power on to recover  
**Working temperature:** -40°C bis +55°C (no derating); +70°C @ 60% load free air convection; +70°C (no derating with external base plate)  
**Working humidity:** 5 – 95% RH non-condensing  
**Vibration:** 10-500Hz, 5G 10 min./1cycle, 60min. each along X,Y,Z axes; mounting: compliance to IEC61373  
**Safety Standards:** EAC TP TC 004 approved IEC60950-1 (LVD)  
**Withstand Voltage:** I/P-O/P: 4 kV DC, I/P-FG: 2,5 kV DC, O/P-FG: 2,5 kV DC  
**Isolation Resistance** I/P-O/P,I/P-FG, O/P-FG: 100 MOhm / 500 V DC / 25°C / 70% RH  
**Railway Standard: Compliance to EN45545-2, EN50155 / IEC60571 including IEC61373, EN50121-3-2**  
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GOGAPLUS DCW-MWG200

**MTBF:** 218,2K hrs min., MIL-HDBK-217F (25°C)  
**Abmessungen / dimensions:** 191 x 86 x 40 mm  
**Gewicht / notice:** 0,94 kg

| Typ<br>type       | Eingang<br>V <sub>DC</sub><br>input voltage | Ausgang<br>V <sub>DC</sub><br>output voltage | Strom<br>A<br>current | Leistung<br>W<br>power | Leistungsgrad<br>%<br>performance level | ArtNr      | €/Stk.<br>/pc. |
|-------------------|---|--|-----------------------|------------------------|---|------------|----------------|
| DCW-MGW200-24-12  |   | 12   | 16,7                  | 200,4                  | 89                                      | 462283-24  | 235,00         |
| DCW-MGW200-24-24  | 16,8 - 31,2                                 | 24   | 8,4                   | 201,6                  | 89                                      | 462286-24  | 222,00         |
| DCW-MGW200-24-48  |   | 48   | 4,2                   | 201,6                  | 89                                      | 462288-24  | 235,00         |
| DCW-MGW200-48-12  |   | 12   | 16,7                  | 200,4                  | 91                                      | 462283-48  | 235,00         |
| DCW-MGW200-48-24  | 33,6 - 62,4                                 | 24   | 8,4                   | 201,6                  | 91                                      | 462286-48  | 222,00         |
| DCW-MGW200-48-48  |   | 48   | 4,2                   | 201,6                  | 91                                      | 462288-48  | 222,00         |
| DCW-MGW200-110-12 |   | 12   | 16,7                  | 200,4                  | 91                                      | 462283-110 | 222,00         |
| DCW-MGW200-110-24 | 67,2 - 143                                  | 24   | 8,4                   | 201,6                  | 91                                      | 462286-110 | 235,00         |
| DCW-MGW200-110-48 |   | 48   | 4,2                   | 201,6                  | 91                                      | 462288-110 | 235,00         |



GOGAPLUS DCW-MWG300

**MTBF:** 130,7K hrs min., MIL-HDBK-217F (25°C)  
**Abmessungen / dimensions:** 216 x 96 x 40 mm  
**Gewicht / notice:** 1,19 kg

| Typ<br>type       | Eingang<br>V <sub>DC</sub><br>input voltage | Ausgang<br>V <sub>DC</sub><br>output voltage | Strom<br>A<br>current | Leistung<br>W<br>power | Leistungsgrad<br>%<br>performance level | ArtNr      | €/Stk.<br>/pc. |
|-------------------|---|--|-----------------------|------------------------|---|------------|----------------|
| DCW-MVG300-24-5   |   | 5  | 42                    | 210                    | 89                                      | 462291-24  | 283,00         |
| DCW-MVG300-24-12  | 16,8 - 31,2                                 | 12   | 22,5                  | 270                    | 89,5                                    | 462293-24  | 283,00         |
| DCW-MVG300-24-24  |   | 24   | 11,3                  | 271,2                  | 90                                      | 462296-24  | 266,00         |
| DCW-MVG300-24-48  |   | 48   | 5,7                   | 273,6                  | 91,5                                    | 462298-24  | 283,00         |
| DCW-MVG300-36-5   |   | 5  | 42                    | 210                    | 88                                      | 462291-36  | 283,00         |
| DCW-MVG300-36-12  | 25,2 - 46,8                                 | 12   | 25                    | 300                    | 90                                      | 462293-36  | 283,00         |
| DCW-MVG300-36-24  |   | 24   | 12,5                  | 300                    | 91                                      | 462296-36  | 368,00         |
| DCW-MVG300-36-48  |   | 48   | 6,3                   | 302,4                  | 91                                      | 462298-36  | 283,00         |
| DCW-MVG300-48-5   |   | 5  | 42                    | 210                    | 90,5                                    | 462291-48  | 283,00         |
| DCW-MVG300-48-12  | 33,6 - 62,4                                 | 12   | 25                    | 300                    | 91                                      | 462293-48  | 283,00         |
| DCW-MVG300-48-24  |   | 24   | 12,5                  | 300                    | 91,5                                    | 462296-48  | 266,00         |
| DCW-MVG300-48-48  |   | 48   | 6,3                   | 302,4                  | 92                                      | 462298-48  | 283,00         |
| DCW-MVG300-72-5   |   | 5  | 42                    | 210                    | 89                                      | 462291-72  | 283,00         |
| DCW-MVG300-72-12  | 50,4 - 93,6                                 | 12   | 25                    | 300                    | 91                                      | 462293-72  | 283,00         |
| DCW-MVG300-72-24  |   | 24   | 12,5                  | 300                    | 91                                      | 462296-72  | 283,00         |
| DCW-MVG300-72-48  |   | 48   | 6,3                   | 302,4                  | 91,5                                    | 462298-72  | 283,00         |
| DCW-MVG300-110-5  |   | 5  | 42                    | 210                    | 90                                      | 462291-110 | 283,00         |
| DCW-MVG300-110-12 | 67,2 - 143                                  | 12   | 25                    | 300                    | 91,5                                    | 462293-110 | 283,00         |
| DCW-MVG300-110-24 |   | 24   | 12,5                  | 300                    | 91,5                                    | 462296-110 | 266,00         |
| DCW-MVG300-110-48 |   | 48   | 6,3                   | 302,4                  | 91,5                                    | 462298-110 | 310,00         |



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