

UL TYPE EXAMINATION CERTIFICATE

Low Voltage Directive 2014/35/EU

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| Certificate No. | UL TEC-00623 |
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| Date of Issue | 2017-08-01 |
| Applicant | WAAREE ENERGIES LTD 602, Western Edge-I, Off. Western Express Highway, Borivali(E), Mumbai 400066, Maharashtra, India |
| Manufacturer | WAAREE ENERGIES LTD Plot No.231-236, Surat Special Economic Zone, Diamond Park, Sachin, Surat, Gujarat 394230, India |
| Product Sample Description | Photovoltaic (PV) Module(s) |
| Designation | WS-3, WS-5, WS-6, WS-8, WS-10, WS-12, WS-15, WS- 18, WS-20, WS-24, WS- 25, WS-30, WS-35, WS- 37, WS-40, WS- 45, WS-50, WS-51, WS-52, WS-53, WS-54, WS-55, WS- 60, WS-65, WS-70, WS-74, WS- 75, WS-80, WS-85, WS-90, WS-95, WS-330, WS- XXX (XXX – 100 to 320 with 5 W of interval) WSM-XXX (XXX denotes 255W to 300W with 5W of interval) WSM-XXX (XXX denotes 320W to 360W with 5W of interval) |
| Ratings | Maximum System Voltage: 1000 V Maximum Series Fuse: 15 A. See page 3 to page 14 |
| Product Sample Tested and found in compliance with Standard(s) | EN 61730-1:2007+A1:2012+A2:2013+A11:2014 EN 61730-2:2007+A1:2012 EN 61215:2005, 2nd Edition |
| Test Report Nos. | 4787879027-NABL-S1-TRF dated 2017-05-05 4787879027-NABL-S2-TRF1 dated 2017-05-05 4787879027-NABL-S2-TRF2 dated 2017-05-05 See history of the reports on page 2 |
| Additional information | NA |

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein has been investigated and found to have been in compliance with the above mentioned harmonized Standard(s) per Article 12 of Directive 2014/35/EU of the European Parliament of the Council of 26 February 2014 on the harmonisation of the laws of Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits, in accordance with the UL Type Examination Certificate Program Requirements.

As stated in Article 6 of Directive 2014/35/EU, "When placing their electrical equipment on the market, manufacturers shall ensure that it has been designed and manufactured in accordance with the safety objectives referred to in Article 3 and set out in Annex I" and "Manufacturers shall draw up the technical documentation referred to in Annex III and carry out the conformity assessment procedure referred to in Annex III or have it carried out". This remains the responsibility of the manufacturer and is not covered as part of this certificate.

This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/ Manufacturer are solely and fully responsible for any declaration of ongoing conformity of all products to all applicable Standard(s), specifications or requirements. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Certification Body **UL International Demko A/S, Borupvang 5A,
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Models and ratings:

WS-3/6V, WS-3/12V, WS-6/12V WS-5/6V, WS-5/12V, WS-6/12V, WS-8/12V, WS-10/6V, WS-10/12V, WS-12/6V, WS-12/12V, WS-15/6V, WS-15/12V, WS- 18/6V, WS-18/12V, WS-20/6V, WS-20/12V, WS-24/12V, WS-24/24V, WS- 25/12V, WS-30/12V, WS-35/12V, WS-37/12V, WS-40/12V, WS- 45/12V, WS-50/12V, WS-50/24V, WS-51/12V, WS-52/12V, WS-53/12V, WS-54/12V, WS-55/12V, WS- 60/12V, WS-60/24V, WS-65/12V, WS-70/12V, WS-74/12V, WS-74/24V, WS- 75/12V, WS-75/24V, WS-80/12V, WS-80/24V, WS-85/12V, WS-90/12V, WS-90/24V, WS-95/12V (With both 36 cell for 12V and 72 cell for 24V)

WS- XXX/12V (XXX – 100W to 150W with 5 W of interval)

WS-XXX/24V (XXX – 150W to 170W with 5W of interval)

WS-XXX/12V, WS-XXX/24V (XXX – 190W to 250W with 10W of interval)

WS-XXX/24V (XXX – 255W to 310W with 5W of interval),

WS-140, WS-175, WS-180, WS-185, WS-190, WS-195, WS-200, WS-205, WS-210, WS-215, WS-220, WS-225, WS-230, WS-235, WS-240, WS-245, WS-250, WS-255, WS-315, WS-320.

WS-100/24V, WS-110/12V (72 cell), WS-110/24V, WS-125/24V, WS-130/24V, WS-140/24V

WSM-XXX (XXX denotes 255W to 300W with 5W of interval)

WSM-XXX (XXX denotes 320W to 360W with 5W of interval)

History of the reports:

Original reports dated 2014-08-21

4786363550-NABL-S1, 4786363550-NABL-S2; 4786363550-NABL-S2-1

Amendment 1 reports dated 2016-07-29

4787358727-NABL-S1-TRF; 4787358727-NABL-S2-TRF1; 4787358727-NABL-S2-TRF2

Amendment 2 reports dated 2016-12-08;

4787601497.1.1-NABL-S1-TRF; 4787601497.1.1-NABL-S2-TRF1; 4787601497.1.1-NABL-S2-TRF2

Amendment 3 reports dated 2017-02-01

4787698569-NABL-S1-TRF; 4787698569-NABL-S2-TRF1; 4787698569-NABL-S2-TRF2

Amendment 4 reports dated 2017-03-30

4787848096-NABL-S1-TRF; 4787848096-NABL-S2-TRF1; 4787848096-NABL-S2-TRF2



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Ratings:

| Model | Open Circuit Voltage at STC,(V dc) | Rated Voltage at STC,(V dc) | Maximum System Voltage, (V dc) | Rated Current at STC, (A dc) | Short Circuit Current at STC, (A dc) | Rated Maximum Power at STC, (Watts) | Maximum Series Fuse, (A) | No.of cells. |
|-------------|------------------------------------|-----------------------------|--------------------------------|------------------------------|--------------------------------------|-------------------------------------|--------------------------|--------------|
| WS-3 / 6V | 10.20 | 8.70 | 600.00 | 0.34 | 0.39 | 3.00 | 1 | 18 |
| WS-3 / 12V | 21.00 | 17.00 | 600.00 | 0.18 | 0.19 | 3.00 | 1 | 36 |
| WS-5 / 6V | 10.22 | 8.72 | 600.00 | 0.57 | 0.65 | 5.00 | 1 | 18 |
| WS-5 / 12V | 21.02 | 17.00 | 600.00 | 0.29 | 0.32 | 5.00 | 1 | 36 |
| WS-6 / 12V | 21.03 | 17.01 | 600.00 | 0.35 | 0.38 | 6.00 | 1 | 36 |
| WS-8 / 12V | 21.05 | 17.02 | 600.00 | 0.47 | 0.51 | 8.00 | 5 | 36 |
| WS-10 / 6V | 10.27 | 8.77 | 600.00 | 1.14 | 1.30 | 10.00 | 5 | 18 |
| WS-10 / 12V | 21.07 | 17.03 | 600.00 | 0.59 | 0.63 | 10.00 | 5 | 36 |
| WS-12 / 6V | 10.29 | 8.79 | 600.00 | 1.37 | 1.55 | 12.00 | 5 | 18 |
| WS-12 / 12V | 21.09 | 17.04 | 600.00 | 0.70 | 0.76 | 12.00 | 5 | 36 |
| WS-15 / 6V | 10.32 | 8.82 | 600.00 | 1.70 | 1.94 | 15.00 | 5 | 18 |
| WS-15 / 12V | 21.12 | 17.06 | 600.00 | 0.88 | 0.95 | 15.00 | 5 | 36 |
| WS-18 / 6V | 10.35 | 8.85 | 600.00 | 2.03 | 2.32 | 18.00 | 5 | 18 |
| WS-18 / 12V | 21.15 | 17.07 | 600.00 | 1.05 | 1.13 | 18.00 | 5 | 36 |
| WS-20 / 6V | 10.37 | 8.87 | 600.00 | 2.25 | 2.57 | 20.00 | 10 | 18 |
| WS-20 / 12V | 21.17 | 17.08 | 600.00 | 1.17 | 1.26 | 20.00 | 10 | 36 |
| WS-24 / 12V | 21.21 | 17.10 | 600.00 | 1.40 | 1.51 | 24.00 | 10 | 36 |
| WS-24 / 24V | 43.50 | 35.20 | 600.00 | 0.68 | 0.74 | 24.00 | 10 | 72 |
| WS-25 / 12V | 21.22 | 17.11 | 600.00 | 1.46 | 1.57 | 25.00 | 10 | 36 |
| WS-30 / 12V | 21.27 | 17.13 | 600.00 | 1.75 | 1.88 | 30.00 | 10 | 36 |
| WS-35 / 12V | 21.32 | 17.16 | 600.00 | 2.04 | 2.19 | 35.00 | 10 | 36 |
| WS-37 / 12V | 21.34 | 17.17 | 600.00 | 2.16 | 2.31 | 37.00 | 10 | 36 |
| WS-40 / 12V | 21.37 | 17.18 | 1000.00 | 2.33 | 2.50 | 40.00 | 10 | 36 |
| WS-45 / 12V | 21.42 | 17.19 | 1000.00 | 2.62 | 2.80 | 45.00 | 10 | 36 |
| WS-50 / 12V | 21.47 | 17.21 | 1000.00 | 2.91 | 3.11 | 50.00 | 10 | 36 |
| WS-50 / 24V | 43.60 | 35.15 | 1000.00 | 1.42 | 1.53 | 50.00 | 10 | 72 |
| WS-51 / 12V | 21.48 | 17.22 | 1000.00 | 2.96 | 3.17 | 51.00 | 10 | 36 |
| WS-52 / 12V | 21.49 | 17.22 | 1000.00 | 3.02 | 3.23 | 52.00 | 10 | 36 |
| WS-53 / 12V | 21.50 | 17.23 | 1000.00 | 3.08 | 3.29 | 53.00 | 10 | 36 |
| WS-54 / 12V | 21.51 | 17.23 | 1000.00 | 3.13 | 3.35 | 54.00 | 10 | 36 |



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|--------------|-------|-------|---------|------|------|--------|----|----|
| WS-55 / 12V | 21.52 | 17.24 | 1000.00 | 3.19 | 3.41 | 55.00 | 10 | 36 |
| WS-60 / 12V | 21.57 | 17.26 | 1000.00 | 3.48 | 3.71 | 60.00 | 10 | 36 |
| WS-60 / 24V | 43.70 | 35.25 | 1000.00 | 1.70 | 1.83 | 60.00 | 15 | 72 |
| WS-65 / 12V | 21.62 | 17.29 | 1000.00 | 3.76 | 4.01 | 65.00 | 15 | 36 |
| WS-70 / 12V | 21.67 | 17.31 | 1000.00 | 4.04 | 4.31 | 70.00 | 15 | 36 |
| WS-74 / 12V | 21.71 | 17.33 | 1000.00 | 4.27 | 4.54 | 74.00 | 15 | 36 |
| WS-74 / 24V | 43.80 | 35.35 | 1000.00 | 2.09 | 2.25 | 74.00 | 15 | 72 |
| WS-75 / 12V | 21.72 | 17.34 | 1000.00 | 4.33 | 4.60 | 75.00 | 15 | 36 |
| WS-75 / 24V | 43.85 | 35.40 | 1000.00 | 2.12 | 2.28 | 75.00 | 15 | 72 |
| WS-80 / 12V | 21.77 | 17.36 | 1000.00 | 4.61 | 4.90 | 80.00 | 15 | 36 |
| WS-80 / 24V | 43.90 | 35.45 | 1000.00 | 2.26 | 2.43 | 80.00 | 10 | 72 |
| WS-85 / 12V | 21.82 | 17.39 | 1000.00 | 4.89 | 5.19 | 85.00 | 10 | 36 |
| WS-90 / 12V | 21.87 | 17.41 | 1000.00 | 5.17 | 5.49 | 90.00 | 10 | 36 |
| WS-90 / 24V | 43.95 | 35.50 | 1000.00 | 2.54 | 2.73 | 90.00 | 10 | 72 |
| WS-95 / 12V | 21.92 | 17.44 | 1000.00 | 5.45 | 5.78 | 95.00 | 10 | 36 |
| WS-100 / 12V | 22.2 | 17.46 | 1000.00 | 5.73 | 6.07 | 100.00 | 15 | 36 |
| WS-100 / 24V | 44.00 | 35.60 | 1000.00 | 2.81 | 3.03 | 100.00 | 15 | 72 |
| WS-105 / 12V | 22.02 | 17.49 | 1000.00 | 6.01 | 6.36 | 105.00 | 15 | 36 |
| WS-110 / 12V | 22.07 | 17.51 | 1000.00 | 6.28 | 6.65 | 110.00 | 15 | 36 |
| WS-110 / 24V | 44.10 | 35.70 | 1000.00 | 3.08 | 3.33 | 110.00 | 15 | 72 |
| WS-115 / 12V | 22.12 | 17.54 | 1000.00 | 6.56 | 6.93 | 115.00 | 15 | 36 |
| WS-120 / 12V | 22.17 | 17.56 | 1000.00 | 6.83 | 7.22 | 120.00 | 15 | 36 |
| WS-125 / 12V | 22.22 | 17.59 | 1000.00 | 7.11 | 7.50 | 125.00 | 15 | 36 |
| WS-125 / 24V | 44.15 | 35.80 | 1000.00 | 3.49 | 3.78 | 125.00 | 15 | 72 |
| WS-130 / 12V | 22.27 | 17.61 | 1000.00 | 7.38 | 7.78 | 130.00 | 15 | 36 |
| WS-130 / 24V | 44.10 | 35.90 | 1000.00 | 3.62 | 3.93 | 130.00 | 15 | 72 |
| WS-135 / 12V | 22.32 | 17.64 | 1000.00 | 7.66 | 8.06 | 135.00 | 15 | 36 |
| WS-140 / 12V | 22.37 | 17.66 | 1000.00 | 7.93 | 8.34 | 140.00 | 15 | 36 |
| WS-140 | 32.50 | 26.50 | 1000.00 | 5.28 | 5.74 | 140.00 | 15 | 54 |
| WS-140 / 24V | 44.20 | 35.70 | 1000.00 | 3.92 | 4.22 | 140.00 | 15 | 72 |
| WS-145 / 12V | 22.42 | 17.69 | 1000.00 | 8.20 | 8.62 | 145.00 | 15 | 36 |
| WS-150 / 12V | 22.47 | 17.72 | 1000.00 | 8.47 | 8.90 | 150.00 | 15 | 36 |
| WS-150 / 24V | 44.30 | 36.10 | 1000.00 | 4.16 | 4.51 | 150.00 | 15 | 72 |
| WS-155 / 24V | 44.35 | 36.15 | 1000.00 | 4.29 | 4.66 | 155.00 | 15 | 72 |
| WS-160 / 24V | 44.40 | 36.20 | 1000.00 | 4.42 | 4.80 | 160.00 | 15 | 72 |
| WS-165 / 24V | 44.45 | 36.25 | 1000.00 | 4.55 | 4.95 | 165.00 | 15 | 72 |
| WS-170 / 24V | 44.50 | 36.30 | 1000.00 | 4.68 | 5.09 | 170.00 | 15 | 72 |



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|--------------|-------|-------|---------|------|------|--------|----|----|
| WS-175 | 32.50 | 26.50 | 1000.00 | 6.60 | 7.18 | 175.00 | 15 | 54 |
| WS-180 | 32.60 | 26.60 | 1000.00 | 6.77 | 7.36 | 180.00 | 15 | 54 |
| WS-185 | 32.70 | 26.70 | 1000.00 | 6.93 | 7.54 | 185.00 | 15 | 54 |
| WS-190 | 32.80 | 26.80 | 1000.00 | 7.09 | 7.72 | 190.00 | 15 | 54 |
| WS-190 / 24V | 44.70 | 36.20 | 1000.00 | 5.25 | 5.67 | 190.00 | 15 | 72 |
| WS-195 | 32.90 | 26.90 | 1000.00 | 7.25 | 7.90 | 195.00 | 15 | 54 |
| WS-200 | 32.00 | 26.00 | 1000.00 | 7.41 | 8.08 | 200.00 | 15 | 54 |
| WS-200 / 12V | 22.97 | 17.97 | 1000.00 | 5.51 | 5.95 | 200.00 | 15 | 72 |
| WS-200 / 24V | 44.80 | 36.30 | 1000.00 | 7.70 | 8.33 | 200.00 | 15 | 72 |
| WS-205 | 33.10 | 27.10 | 1000.00 | 7.56 | 8.26 | 205.00 | 15 | 54 |
| WS-210 | 36.40 | 30.00 | 1000.00 | 7.00 | 7.69 | 210.00 | 15 | 60 |
| WS-210 / 12V | 23.07 | 18.02 | 1000.00 | 5.97 | 6.42 | 210.00 | 15 | 72 |
| WS-210 / 24V | 43.60 | 35.15 | 1000.00 | 7.25 | 7.78 | 210.00 | 15 | 72 |
| WS-215 | 36.50 | 30.10 | 1000.00 | 7.14 | 7.85 | 215.00 | 15 | 60 |
| WS-220 | 36.60 | 30.20 | 1000.00 | 7.28 | 8.01 | 220.00 | 15 | 60 |
| WS-220 / 12V | 23.17 | 18.07 | 1000.00 | 6.24 | 6.71 | 220.00 | 15 | 72 |
| WS-220 / 24V | 43.70 | 35.25 | 1000.00 | 7.60 | 8.14 | 220.00 | 15 | 72 |
| WS-225 | 36.70 | 30.30 | 1000.00 | 7.43 | 8.17 | 225.00 | 15 | 60 |
| WS-230 | 36.80 | 30.40 | 1000.00 | 7.57 | 8.33 | 230.00 | 15 | 60 |
| WS-230 / 12V | 23.27 | 18.12 | 1000.00 | 6.51 | 7.00 | 230.00 | 15 | 72 |
| WS-230 / 24V | 43.80 | 35.35 | 1000.00 | 7.94 | 8.51 | 230.00 | 15 | 72 |
| WS-235 | 36.90 | 30.50 | 1000.00 | 7.70 | 8.49 | 235.00 | 15 | 60 |
| WS-240 | 37.00 | 30.60 | 1000.00 | 7.84 | 8.65 | 240.00 | 15 | 60 |
| WS-240 / 12V | 23.37 | 18.17 | 1000.00 | 6.77 | 7.29 | 240.00 | 15 | 72 |
| WS-240 / 24V | 43.90 | 35.45 | 1000.00 | 8.28 | 8.88 | 240.00 | 15 | 72 |
| WS-245 | 37.10 | 30.70 | 1000.00 | 7.98 | 8.81 | 245.00 | 15 | 60 |
| WS-250 | 37.20 | 30.80 | 1000.00 | 8.12 | 8.96 | 250.00 | 15 | 60 |
| WS-250 / 12V | 23.47 | 18.22 | 1000.00 | 7.03 | 7.58 | 250.00 | 15 | 72 |
| WS-250 / 24V | 44.00 | 35.55 | 1000.00 | 8.63 | 9.25 | 250.00 | 15 | 72 |
| WS-255 | 37.30 | 30.90 | 1000.00 | 8.25 | 9.12 | 255.00 | 15 | 60 |
| WS-255 / 24V | 44.10 | 35.60 | 1000.00 | 7.16 | 7.71 | 255.00 | 15 | 72 |
| WS-260 / 24V | 44.20 | 35.70 | 1000.00 | 7.28 | 7.84 | 260.00 | 15 | 72 |
| WS-265 / 24V | 44.30 | 35.80 | 1000.00 | 7.40 | 7.98 | 265.00 | 15 | 72 |
| WS-270 / 24V | 44.40 | 35.90 | 1000.00 | 7.52 | 8.11 | 270.00 | 15 | 72 |
| WS-275 / 24V | 44.50 | 36.00 | 1000.00 | 7.64 | 8.24 | 275.00 | 15 | 72 |
| WS-280 / 24V | 44.60 | 36.10 | 1000.00 | 7.76 | 8.37 | 280.00 | 15 | 72 |
| WS-285 / 24V | 44.70 | 36.20 | 1000.00 | 7.87 | 8.50 | 285.00 | 15 | 72 |



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| WS-290 / 24V | 44.80 | 36.30 | 1000.00 | 7.99 | 8.63 | 290.00 | 15 | 72 |
| WS-295 / 24V | 44.90 | 36.40 | 1000.00 | 8.10 | 8.76 | 295.00 | 15 | 72 |
| WS-300 / 24V | 45.00 | 36.50 | 1000.00 | 8.22 | 8.89 | 300.00 | 15 | 72 |
| WS-305 / 24V | 45.10 | 36.60 | 1000.00 | 8.33 | 9.02 | 305.00 | 15 | 72 |
| WS-310 / 24V | 45.20 | 36.70 | 1000.00 | 8.45 | 9.14 | 310.00 | 15 | 72 |
| WS-315 | 45.25 | 36.75 | 1000.00 | 8.58 | 9.29 | 315.00 | 15 | 72 |
| WS-320 | 45.3 | 36.8 | 1000.00 | 8.7 | 9.42 | 320.00 | 15 | 72 |
| WS-40 / 12V | 21.37 | 17.18 | 1000.00 | 2.33 | 2.5 | 40.00 | 10 | 72 |
| WS-45 / 12V | 21.42 | 17.19 | 1000.00 | 2.62 | 2.8 | 45.00 | 10 | 72 |
| WS-50 / 12V | 21.47 | 17.21 | 1000.00 | 2.91 | 3.11 | 50.00 | 10 | 72 |
| WS-51 / 12V | 21.48 | 17.22 | 1000.00 | 2.96 | 3.17 | 51.00 | 10 | 72 |
| WS-52 / 12V | 21.49 | 17.22 | 1000.00 | 3.02 | 3.23 | 52.00 | 10 | 72 |
| WS-53 / 12V | 21.5 | 17.23 | 1000.00 | 3.08 | 3.29 | 53.00 | 10 | 72 |
| WS-54 / 12V | 21.51 | 17.23 | 1000.00 | 3.13 | 3.35 | 54.00 | 10 | 72 |
| WS-55 / 12V | 21.52 | 17.24 | 1000.00 | 3.19 | 3.41 | 55.00 | 10 | 72 |
| WS-60 / 12V | 21.57 | 17.26 | 1000.00 | 3.48 | 3.71 | 60.00 | 10 | 72 |
| WS-65 / 12V | 21.62 | 17.29 | 1000.00 | 3.76 | 4.01 | 65.00 | 15 | 72 |
| WS-70 / 12V | 21.67 | 17.31 | 1000.00 | 4.04 | 4.31 | 70.00 | 15 | 72 |
| WS-74 / 12V | 21.71 | 17.33 | 1000.00 | 4.27 | 4.54 | 74.00 | 15 | 72 |
| WS-75 / 12V | 21.72 | 17.34 | 1000.00 | 4.33 | 4.6 | 75.00 | 15 | 72 |
| WS-80 / 12V | 21.77 | 17.36 | 1000.00 | 4.61 | 4.9 | 80.00 | 15 | 72 |
| WS-85 / 12V | 21.82 | 17.39 | 1000.00 | 4.89 | 5.19 | 85.00 | 10 | 72 |
| WS-90 / 12V | 21.87 | 17.41 | 1000.00 | 5.17 | 5.49 | 90.00 | 10 | 72 |
| WS-95 / 12V | 21.92 | 17.44 | 1000.00 | 5.45 | 5.78 | 95.00 | 10 | 72 |
| WS-100 / 12V | 22.2 | 17.46 | 1000.00 | 5.73 | 6.07 | 100.00 | 15 | 72 |
| WS-105 / 12V | 22.02 | 17.49 | 1000.00 | 6.01 | 6.36 | 105.00 | 15 | 72 |
| WS-110 / 12V | 22.07 | 17.51 | 1000.00 | 6.28 | 6.65 | 110.00 | 15 | 72 |
| WS-115 / 12V | 22.12 | 17.54 | 1000.00 | 6.56 | 6.93 | 115.00 | 15 | 72 |
| WS-120 / 12V | 22.17 | 17.56 | 1000.00 | 6.83 | 7.22 | 120.00 | 15 | 72 |
| WSM-255 | 36.50 | 30.00 | 1000.00 | 8.50 | 9.00 | 255 | 15 | 60 |
| WSM-260 | 36.60 | 30.25 | 1000.00 | 8.60 | 9.15 | 260 | 15 | 60 |
| WSM-265 | 36.70 | 30.50 | 1000.00 | 8.70 | 9.30 | 265 | 15 | 60 |
| WSM-270 | 37.20 | 30.90 | 1000.00 | 8.75 | 9.40 | 270 | 15 | 60 |
| WSM-275 | 37.40 | 31.10 | 1000.00 | 8.85 | 9.55 | 275 | 15 | 60 |
| WSM-280 | 37.60 | 31.40 | 1000.00 | 8.93 | 9.65 | 280 | 15 | 60 |
| WSM-285 | 37.90 | 31.50 | 1000.00 | 9.05 | 9.75 | 285 | 15 | 60 |
| WSM-290 | 38.20 | 31.60 | 1000.00 | 9.20 | 9.80 | 290 | 15 | 60 |
| WSM-295 | 38.50 | 31.80 | 1000.00 | 9.28 | 9.85 | 295 | 15 | 60 |



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|-------------|-------|-------|---------|------|------|-------|----|----|
| WSM-300 | 38.80 | 32.00 | 1000.00 | 9.38 | 9.95 | 300 | 15 | 60 |
| WSM-320 | 45.20 | 36.20 | 1000.00 | 8.85 | 9.20 | 320 | 15 | 72 |
| WSM-325 | 45.40 | 36.40 | 1000.00 | 8.94 | 9.30 | 325 | 15 | 72 |
| WSM-330 | 45.60 | 36.55 | 1000.00 | 9.03 | 9.40 | 330 | 15 | 72 |
| WSM-335 | 45.80 | 36.70 | 1000.00 | 9.13 | 9.50 | 335 | 15 | 72 |
| WSM-340 | 46.00 | 36.90 | 1000.00 | 9.22 | 9.60 | 340 | 15 | 72 |
| WSM-345 | 46.20 | 37.20 | 1000.00 | 9.28 | 9.70 | 345 | 15 | 72 |
| WSM-350 | 46.40 | 37.50 | 1000.00 | 9.35 | 9.80 | 350 | 15 | 72 |
| WSM-355 | 46.60 | 37.65 | 1000.00 | 9.43 | 9.85 | 355 | 15 | 72 |
| WSM-360 | 46.80 | 37.90 | 1000.00 | 9.50 | 9.90 | 360 | 15 | 72 |
| WS-3 / 6V | 10.20 | 8.70 | 600.00 | 0.34 | 0.39 | 3.00 | 1 | 18 |
| WS-3 / 12V | 21.00 | 17.00 | 600.00 | 0.18 | 0.19 | 3.00 | 1 | 36 |
| WS-5 / 6V | 10.22 | 8.72 | 600.00 | 0.57 | 0.65 | 5.00 | 1 | 18 |
| WS-5 / 12V | 21.02 | 17.00 | 600.00 | 0.29 | 0.32 | 5.00 | 1 | 36 |
| WS-6 / 12V | 21.03 | 17.01 | 600.00 | 0.35 | 0.38 | 6.00 | 1 | 36 |
| WS-8 / 12V | 21.05 | 17.02 | 600.00 | 0.47 | 0.51 | 8.00 | 5 | 36 |
| WS-10 / 6V | 10.27 | 8.77 | 600.00 | 1.14 | 1.30 | 10.00 | 5 | 18 |
| WS-10 / 12V | 21.07 | 17.03 | 600.00 | 0.59 | 0.63 | 10.00 | 5 | 36 |
| WS-12 / 6V | 10.29 | 8.79 | 600.00 | 1.37 | 1.55 | 12.00 | 5 | 18 |
| WS-12 / 12V | 21.09 | 17.04 | 600.00 | 0.70 | 0.76 | 12.00 | 5 | 36 |
| WS-15 / 6V | 10.32 | 8.82 | 600.00 | 1.70 | 1.94 | 15.00 | 5 | 18 |
| WS-15 / 12V | 21.12 | 17.06 | 600.00 | 0.88 | 0.95 | 15.00 | 5 | 36 |
| WS-18 / 6V | 10.35 | 8.85 | 600.00 | 2.03 | 2.32 | 18.00 | 5 | 18 |
| WS-18 / 12V | 21.15 | 17.07 | 600.00 | 1.05 | 1.13 | 18.00 | 5 | 36 |
| WS-20 / 6V | 10.37 | 8.87 | 600.00 | 2.25 | 2.57 | 20.00 | 10 | 18 |
| WS-20 / 12V | 21.17 | 17.08 | 600.00 | 1.17 | 1.26 | 20.00 | 10 | 36 |
| WS-24 / 12V | 21.21 | 17.10 | 600.00 | 1.40 | 1.51 | 24.00 | 10 | 36 |
| WS-24 / 24V | 43.50 | 35.20 | 600.00 | 0.68 | 0.74 | 24.00 | 10 | 72 |
| WS-25 / 12V | 21.22 | 17.11 | 600.00 | 1.46 | 1.57 | 25.00 | 10 | 36 |
| WS-30 / 12V | 21.27 | 17.13 | 600.00 | 1.75 | 1.88 | 30.00 | 10 | 36 |
| WS-35 / 12V | 21.32 | 17.16 | 600.00 | 2.04 | 2.19 | 35.00 | 10 | 36 |
| WS-37 / 12V | 21.34 | 17.17 | 600.00 | 2.16 | 2.31 | 37.00 | 10 | 36 |
| WS-40 / 12V | 21.37 | 17.18 | 1000.00 | 2.33 | 2.50 | 40.00 | 10 | 36 |
| WS-45 / 12V | 21.42 | 17.19 | 1000.00 | 2.62 | 2.80 | 45.00 | 10 | 36 |
| WS-50 / 12V | 21.47 | 17.21 | 1000.00 | 2.91 | 3.11 | 50.00 | 10 | 36 |
| WS-50 / 24V | 43.60 | 35.15 | 1000.00 | 1.42 | 1.53 | 50.00 | 10 | 72 |
| WS-51 / 12V | 21.48 | 17.22 | 1000.00 | 2.96 | 3.17 | 51.00 | 10 | 36 |
| WS-52 / 12V | 21.49 | 17.22 | 1000.00 | 3.02 | 3.23 | 52.00 | 10 | 36 |



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| | | | | | | | | |
|--------------|-------|-------|---------|------|------|--------|----|----|
| WS-53 / 12V | 21.50 | 17.23 | 1000.00 | 3.08 | 3.29 | 53.00 | 10 | 36 |
| WS-54 / 12V | 21.51 | 17.23 | 1000.00 | 3.13 | 3.35 | 54.00 | 10 | 36 |
| WS-55 / 12V | 21.52 | 17.24 | 1000.00 | 3.19 | 3.41 | 55.00 | 10 | 36 |
| WS-60 / 12V | 21.57 | 17.26 | 1000.00 | 3.48 | 3.71 | 60.00 | 10 | 36 |
| WS-60 / 24V | 43.70 | 35.25 | 1000.00 | 1.70 | 1.83 | 60.00 | 15 | 72 |
| WS-65 / 12V | 21.62 | 17.29 | 1000.00 | 3.76 | 4.01 | 65.00 | 15 | 36 |
| WS-70 / 12V | 21.67 | 17.31 | 1000.00 | 4.04 | 4.31 | 70.00 | 15 | 36 |
| WS-74 / 12V | 21.71 | 17.33 | 1000.00 | 4.27 | 4.54 | 74.00 | 15 | 36 |
| WS-74 / 24V | 43.80 | 35.35 | 1000.00 | 2.09 | 2.25 | 74.00 | 15 | 72 |
| WS-75 / 12V | 21.72 | 17.34 | 1000.00 | 4.33 | 4.60 | 75.00 | 15 | 36 |
| WS-75 / 24V | 43.85 | 35.40 | 1000.00 | 2.12 | 2.28 | 75.00 | 15 | 72 |
| WS-80 / 12V | 21.77 | 17.36 | 1000.00 | 4.61 | 4.90 | 80.00 | 15 | 36 |
| WS-80 / 24V | 43.90 | 35.45 | 1000.00 | 2.26 | 2.43 | 80.00 | 10 | 72 |
| WS-85 / 12V | 21.82 | 17.39 | 1000.00 | 4.89 | 5.19 | 85.00 | 10 | 36 |
| WS-90 / 12V | 21.87 | 17.41 | 1000.00 | 5.17 | 5.49 | 90.00 | 10 | 36 |
| WS-90 / 24V | 43.95 | 35.50 | 1000.00 | 2.54 | 2.73 | 90.00 | 10 | 72 |
| WS-95 / 12V | 21.92 | 17.44 | 1000.00 | 5.45 | 5.78 | 95.00 | 10 | 36 |
| WS-100 / 12V | 22.2 | 17.46 | 1000.00 | 5.73 | 6.07 | 100.00 | 15 | 36 |
| WS-100 / 24V | 44.00 | 35.60 | 1000.00 | 2.81 | 3.03 | 100.00 | 15 | 72 |
| WS-105 / 12V | 22.02 | 17.49 | 1000.00 | 6.01 | 6.36 | 105.00 | 15 | 36 |
| WS-110 / 12V | 22.07 | 17.51 | 1000.00 | 6.28 | 6.65 | 110.00 | 15 | 36 |
| WS-110 / 24V | 44.10 | 35.70 | 1000.00 | 3.08 | 3.33 | 110.00 | 15 | 72 |
| WS-115 / 12V | 22.12 | 17.54 | 1000.00 | 6.56 | 6.93 | 115.00 | 15 | 36 |
| WS-120 / 12V | 22.17 | 17.56 | 1000.00 | 6.83 | 7.22 | 120.00 | 15 | 36 |
| WS-125 / 12V | 22.22 | 17.59 | 1000.00 | 7.11 | 7.50 | 125.00 | 15 | 36 |
| WS-125 / 24V | 44.15 | 35.80 | 1000.00 | 3.49 | 3.78 | 125.00 | 15 | 72 |
| WS-130 / 12V | 22.27 | 17.61 | 1000.00 | 7.38 | 7.78 | 130.00 | 15 | 36 |
| WS-130 / 24V | 44.10 | 35.90 | 1000.00 | 3.62 | 3.93 | 130.00 | 15 | 72 |
| WS-135 / 12V | 22.32 | 17.64 | 1000.00 | 7.66 | 8.06 | 135.00 | 15 | 36 |
| WS-140 / 12V | 22.37 | 17.66 | 1000.00 | 7.93 | 8.34 | 140.00 | 15 | 36 |
| WS-140 | 32.50 | 26.50 | 1000.00 | 5.28 | 5.74 | 140.00 | 15 | 54 |
| WS-140 / 24V | 44.20 | 35.70 | 1000.00 | 3.92 | 4.22 | 140.00 | 15 | 72 |
| WS-145 / 12V | 22.42 | 17.69 | 1000.00 | 8.20 | 8.62 | 145.00 | 15 | 36 |
| WS-150 / 12V | 22.47 | 17.72 | 1000.00 | 8.47 | 8.90 | 150.00 | 15 | 36 |
| WS-150 / 24V | 44.30 | 36.10 | 1000.00 | 4.16 | 4.51 | 150.00 | 15 | 72 |
| WS-155 / 24V | 44.35 | 36.15 | 1000.00 | 4.29 | 4.66 | 155.00 | 15 | 72 |
| WS-160 / 24V | 44.40 | 36.20 | 1000.00 | 4.42 | 4.80 | 160.00 | 15 | 72 |
| WS-165 / 24V | 44.45 | 36.25 | 1000.00 | 4.55 | 4.95 | 165.00 | 15 | 72 |



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|--------------|-------|-------|---------|------|------|--------|----|----|
| WS-170 / 24V | 44.50 | 36.30 | 1000.00 | 4.68 | 5.09 | 170.00 | 15 | 72 |
| WS-175 | 32.50 | 26.50 | 1000.00 | 6.60 | 7.18 | 175.00 | 15 | 54 |
| WS-180 | 32.60 | 26.60 | 1000.00 | 6.77 | 7.36 | 180.00 | 15 | 54 |
| WS-185 | 32.70 | 26.70 | 1000.00 | 6.93 | 7.54 | 185.00 | 15 | 54 |
| WS-190 | 32.80 | 26.80 | 1000.00 | 7.09 | 7.72 | 190.00 | 15 | 54 |
| WS-190 / 24V | 44.70 | 36.20 | 1000.00 | 5.25 | 5.67 | 190.00 | 15 | 72 |
| WS-195 | 32.90 | 26.90 | 1000.00 | 7.25 | 7.90 | 195.00 | 15 | 54 |
| WS-200 | 33.00 | 27.00 | 1000.00 | 7.41 | 8.08 | 200.00 | 15 | 54 |
| WS-200 / 12V | 22.97 | 17.97 | 1000.00 | 5.51 | 5.95 | 200.00 | 15 | 72 |
| WS-200 / 24V | 44.80 | 36.30 | 1000.00 | 7.70 | 8.33 | 200.00 | 15 | 72 |
| WS-205 | 33.10 | 27.10 | 1000.00 | 7.56 | 8.26 | 205.00 | 15 | 54 |
| WS-210 | 36.40 | 30.00 | 1000.00 | 7.00 | 7.69 | 210.00 | 15 | 60 |
| WS-210 / 12V | 23.07 | 18.02 | 1000.00 | 5.97 | 6.42 | 210.00 | 15 | 72 |
| WS-210 / 24V | 43.60 | 35.15 | 1000.00 | 7.25 | 7.78 | 210.00 | 15 | 72 |
| WS-215 | 36.50 | 30.10 | 1000.00 | 7.14 | 7.85 | 215.00 | 15 | 60 |
| WS-220 | 36.60 | 30.20 | 1000.00 | 7.28 | 8.01 | 220.00 | 15 | 60 |
| WS-220 / 12V | 23.17 | 18.07 | 1000.00 | 6.24 | 6.71 | 220.00 | 15 | 72 |
| WS-220 / 24V | 43.70 | 35.25 | 1000.00 | 7.60 | 8.14 | 220.00 | 15 | 72 |
| WS-225 | 36.70 | 30.30 | 1000.00 | 7.43 | 8.17 | 225.00 | 15 | 60 |
| WS-230 | 36.80 | 30.40 | 1000.00 | 7.57 | 8.33 | 230.00 | 15 | 60 |
| WS-230 / 12V | 23.27 | 18.12 | 1000.00 | 6.51 | 7.00 | 230.00 | 15 | 72 |
| WS-230 / 24V | 43.80 | 35.35 | 1000.00 | 7.94 | 8.51 | 230.00 | 15 | 72 |
| WS-235 | 36.90 | 30.50 | 1000.00 | 7.70 | 8.49 | 235.00 | 15 | 60 |
| WS-240 | 37.00 | 30.60 | 1000.00 | 7.84 | 8.65 | 240.00 | 15 | 60 |
| WS-240 / 12V | 23.37 | 18.17 | 1000.00 | 6.77 | 7.29 | 240.00 | 15 | 72 |
| WS-240 / 24V | 43.90 | 35.45 | 1000.00 | 8.28 | 8.88 | 240.00 | 15 | 72 |
| WS-245 | 37.10 | 30.70 | 1000.00 | 7.98 | 8.81 | 245.00 | 15 | 60 |
| WS-250 | 37.20 | 30.80 | 1000.00 | 8.12 | 8.96 | 250.00 | 15 | 60 |
| WS-250 / 12V | 23.47 | 18.22 | 1000.00 | 7.03 | 7.58 | 250.00 | 15 | 72 |
| WS-250 / 24V | 44.00 | 35.55 | 1000.00 | 8.63 | 9.25 | 250.00 | 15 | 72 |
| WS-255 | 37.30 | 30.90 | 1000.00 | 8.25 | 9.12 | 255.00 | 15 | 60 |
| WS-255 / 24V | 44.10 | 35.60 | 1000.00 | 7.16 | 7.71 | 255.00 | 15 | 72 |
| WS-260 / 24V | 44.20 | 35.70 | 1000.00 | 7.28 | 7.84 | 260.00 | 15 | 72 |
| WS-265 / 24V | 44.30 | 35.80 | 1000.00 | 7.40 | 7.98 | 265.00 | 15 | 72 |
| WS-270 / 24V | 44.40 | 35.90 | 1000.00 | 7.52 | 8.11 | 270.00 | 15 | 72 |
| WS-275 / 24V | 44.50 | 36.00 | 1000.00 | 7.64 | 8.24 | 275.00 | 15 | 72 |
| WS-280 / 24V | 44.60 | 36.10 | 1000.00 | 7.76 | 8.37 | 280.00 | 15 | 72 |
| WS-285 / 24V | 44.70 | 36.20 | 1000.00 | 7.87 | 8.50 | 285.00 | 15 | 72 |



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|--------------|-------|-------|---------|------|------|--------|----|----|
| WS-290 / 24V | 44.80 | 36.30 | 1000.00 | 7.99 | 8.63 | 290.00 | 15 | 72 |
| WS-295 / 24V | 44.90 | 36.40 | 1000.00 | 8.10 | 8.76 | 295.00 | 15 | 72 |
| WS-300 / 24V | 45.00 | 36.50 | 1000.00 | 8.22 | 8.89 | 300.00 | 15 | 72 |
| WS-305 / 24V | 45.10 | 36.60 | 1000.00 | 8.33 | 9.02 | 305.00 | 15 | 72 |
| WS-310 / 24V | 45.20 | 36.70 | 1000.00 | 8.45 | 9.14 | 310.00 | 15 | 72 |
| WS-315 | 45.25 | 36.75 | 1000.00 | 8.58 | 9.29 | 315.00 | 15 | 72 |
| WS-320 | 45.3 | 36.8 | 1000.00 | 8.7 | 9.42 | 320.00 | 15 | 72 |
| WS-40 / 12V | 21.37 | 17.18 | 1000.00 | 2.33 | 2.5 | 40.00 | 10 | 72 |
| WS-45 / 12V | 21.42 | 17.19 | 1000.00 | 2.62 | 2.8 | 45.00 | 10 | 72 |
| WS-50 / 12V | 21.47 | 17.21 | 1000.00 | 2.91 | 3.11 | 50.00 | 10 | 72 |
| WS-51 / 12V | 21.48 | 17.22 | 1000.00 | 2.96 | 3.17 | 51.00 | 10 | 72 |
| WS-52 / 12V | 21.49 | 17.22 | 1000.00 | 3.02 | 3.23 | 52.00 | 10 | 72 |
| WS-53 / 12V | 21.5 | 17.23 | 1000.00 | 3.08 | 3.29 | 53.00 | 10 | 72 |
| WS-54 / 12V | 21.51 | 17.23 | 1000.00 | 3.13 | 3.35 | 54.00 | 10 | 72 |
| WS-55 / 12V | 21.52 | 17.24 | 1000.00 | 3.19 | 3.41 | 55.00 | 10 | 72 |
| WS-60 / 12V | 21.57 | 17.26 | 1000.00 | 3.48 | 3.71 | 60.00 | 10 | 72 |
| WS-65 / 12V | 21.62 | 17.29 | 1000.00 | 3.76 | 4.01 | 65.00 | 15 | 72 |
| WS-70 / 12V | 21.67 | 17.31 | 1000.00 | 4.04 | 4.31 | 70.00 | 15 | 72 |
| WS-74 / 12V | 21.71 | 17.33 | 1000.00 | 4.27 | 4.54 | 74.00 | 15 | 72 |
| WS-75 / 12V | 21.72 | 17.34 | 1000.00 | 4.33 | 4.6 | 75.00 | 15 | 72 |
| WS-80 / 12V | 21.77 | 17.36 | 1000.00 | 4.61 | 4.9 | 80.00 | 15 | 72 |
| WS-85 / 12V | 21.82 | 17.39 | 1000.00 | 4.89 | 5.19 | 85.00 | 10 | 72 |
| WS-90 / 12V | 21.87 | 17.41 | 1000.00 | 5.17 | 5.49 | 90.00 | 10 | 72 |
| WS-95 / 12V | 21.92 | 17.44 | 1000.00 | 5.45 | 5.78 | 95.00 | 10 | 72 |
| WS-100 / 12V | 22.2 | 17.46 | 1000.00 | 5.73 | 6.07 | 100.00 | 15 | 72 |
| WS-105 / 12V | 22.02 | 17.49 | 1000.00 | 6.01 | 6.36 | 105.00 | 15 | 72 |
| WS-110 / 12V | 22.07 | 17.51 | 1000.00 | 6.28 | 6.65 | 110.00 | 15 | 72 |
| WS-115 / 12V | 22.12 | 17.54 | 1000.00 | 6.56 | 6.93 | 115.00 | 15 | 72 |
| WS-120 / 12V | 22.17 | 17.56 | 1000.00 | 6.83 | 7.22 | 120.00 | 15 | 72 |
| WSM-255 | 36.50 | 30.00 | 1000.00 | 8.50 | 9.00 | 255 | 15 | 60 |
| WSM-260 | 36.60 | 30.25 | 1000.00 | 8.60 | 9.15 | 260 | 15 | 60 |
| WSM-265 | 36.70 | 30.50 | 1000.00 | 8.70 | 9.30 | 265 | 15 | 60 |
| WSM-270 | 37.20 | 30.90 | 1000.00 | 8.75 | 9.40 | 270 | 15 | 60 |
| WSM-275 | 37.40 | 31.10 | 1000.00 | 8.85 | 9.55 | 275 | 15 | 60 |
| WSM-280 | 37.60 | 31.40 | 1000.00 | 8.93 | 9.65 | 280 | 15 | 60 |
| WSM-285 | 37.90 | 31.50 | 1000.00 | 9.05 | 9.75 | 285 | 15 | 60 |
| WSM-290 | 38.20 | 31.60 | 1000.00 | 9.20 | 9.80 | 290 | 15 | 60 |
| WSM-295 | 38.50 | 31.80 | 1000.00 | 9.28 | 9.85 | 295 | 15 | 60 |



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|-------------|-------|-------|---------|------|------|-------|----|----|
| WSM-300 | 38.80 | 32.00 | 1000.00 | 9.38 | 9.95 | 300 | 15 | 60 |
| WSM-320 | 45.20 | 36.20 | 1000.00 | 8.85 | 9.20 | 320 | 15 | 72 |
| WSM-325 | 45.40 | 36.40 | 1000.00 | 8.94 | 9.30 | 325 | 15 | 72 |
| WSM-330 | 45.60 | 36.55 | 1000.00 | 9.03 | 9.40 | 330 | 15 | 72 |
| WSM-335 | 45.80 | 36.70 | 1000.00 | 9.13 | 9.50 | 335 | 15 | 72 |
| WSM-340 | 46.00 | 36.90 | 1000.00 | 9.22 | 9.60 | 340 | 15 | 72 |
| WSM-345 | 46.20 | 37.20 | 1000.00 | 9.28 | 9.70 | 345 | 15 | 72 |
| WSM-350 | 46.40 | 37.50 | 1000.00 | 9.35 | 9.80 | 350 | 15 | 72 |
| WSM-355 | 46.60 | 37.65 | 1000.00 | 9.43 | 9.85 | 355 | 15 | 72 |
| WSM-360 | 46.80 | 37.90 | 1000.00 | 9.50 | 9.90 | 360 | 15 | 72 |
| WS-3 / 6V | 10.20 | 8.70 | 600.00 | 0.34 | 0.39 | 3.00 | 1 | 18 |
| WS-3 / 12V | 21.00 | 17.00 | 600.00 | 0.18 | 0.19 | 3.00 | 1 | 36 |
| WS-5 / 6V | 10.22 | 8.72 | 600.00 | 0.57 | 0.65 | 5.00 | 1 | 18 |
| WS-5 / 12V | 21.02 | 17.00 | 600.00 | 0.29 | 0.32 | 5.00 | 1 | 36 |
| WS-6 / 12V | 21.03 | 17.01 | 600.00 | 0.35 | 0.38 | 6.00 | 1 | 36 |
| WS-8 / 12V | 21.05 | 17.02 | 600.00 | 0.47 | 0.51 | 8.00 | 5 | 36 |
| WS-10 / 6V | 10.27 | 8.77 | 600.00 | 1.14 | 1.30 | 10.00 | 5 | 18 |
| WS-10 / 12V | 21.07 | 17.03 | 600.00 | 0.59 | 0.63 | 10.00 | 5 | 36 |
| WS-12 / 6V | 10.29 | 8.79 | 600.00 | 1.37 | 1.55 | 12.00 | 5 | 18 |
| WS-12 / 12V | 21.09 | 17.04 | 600.00 | 0.70 | 0.76 | 12.00 | 5 | 36 |
| WS-15 / 6V | 10.32 | 8.82 | 600.00 | 1.70 | 1.94 | 15.00 | 5 | 18 |
| WS-15 / 12V | 21.12 | 17.06 | 600.00 | 0.88 | 0.95 | 15.00 | 5 | 36 |
| WS-18 / 6V | 10.35 | 8.85 | 600.00 | 2.03 | 2.32 | 18.00 | 5 | 18 |
| WS-18 / 12V | 21.15 | 17.07 | 600.00 | 1.05 | 1.13 | 18.00 | 5 | 36 |
| WS-20 / 6V | 10.37 | 8.87 | 600.00 | 2.25 | 2.57 | 20.00 | 10 | 18 |
| WS-20 / 12V | 21.17 | 17.08 | 600.00 | 1.17 | 1.26 | 20.00 | 10 | 36 |
| WS-24 / 12V | 21.21 | 17.10 | 600.00 | 1.40 | 1.51 | 24.00 | 10 | 36 |
| WS-24 / 24V | 43.50 | 35.20 | 600.00 | 0.68 | 0.74 | 24.00 | 10 | 72 |
| WS-25 / 12V | 21.22 | 17.11 | 600.00 | 1.46 | 1.57 | 25.00 | 10 | 36 |
| WS-30 / 12V | 21.27 | 17.13 | 600.00 | 1.75 | 1.88 | 30.00 | 10 | 36 |
| WS-35 / 12V | 21.32 | 17.16 | 600.00 | 2.04 | 2.19 | 35.00 | 10 | 36 |
| WS-37 / 12V | 21.34 | 17.17 | 600.00 | 2.16 | 2.31 | 37.00 | 10 | 36 |
| WS-40 / 12V | 21.37 | 17.18 | 1000.00 | 2.33 | 2.50 | 40.00 | 10 | 36 |
| WS-45 / 12V | 21.42 | 17.19 | 1000.00 | 2.62 | 2.80 | 45.00 | 10 | 36 |
| WS-50 / 12V | 21.47 | 17.21 | 1000.00 | 2.91 | 3.11 | 50.00 | 10 | 36 |
| WS-50 / 24V | 43.60 | 35.15 | 1000.00 | 1.42 | 1.53 | 50.00 | 10 | 72 |
| WS-51 / 12V | 21.48 | 17.22 | 1000.00 | 2.96 | 3.17 | 51.00 | 10 | 36 |
| WS-52 / 12V | 21.49 | 17.22 | 1000.00 | 3.02 | 3.23 | 52.00 | 10 | 36 |



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|--------------|-------|-------|---------|------|------|--------|----|----|
| WS-53 / 12V | 21.50 | 17.23 | 1000.00 | 3.08 | 3.29 | 53.00 | 10 | 36 |
| WS-54 / 12V | 21.51 | 17.23 | 1000.00 | 3.13 | 3.35 | 54.00 | 10 | 36 |
| WS-55 / 12V | 21.52 | 17.24 | 1000.00 | 3.19 | 3.41 | 55.00 | 10 | 36 |
| WS-60 / 12V | 21.57 | 17.26 | 1000.00 | 3.48 | 3.71 | 60.00 | 10 | 36 |
| WS-60 / 24V | 43.70 | 35.25 | 1000.00 | 1.70 | 1.83 | 60.00 | 15 | 72 |
| WS-65 / 12V | 21.62 | 17.29 | 1000.00 | 3.76 | 4.01 | 65.00 | 15 | 36 |
| WS-70 / 12V | 21.67 | 17.31 | 1000.00 | 4.04 | 4.31 | 70.00 | 15 | 36 |
| WS-74 / 12V | 21.71 | 17.33 | 1000.00 | 4.27 | 4.54 | 74.00 | 15 | 36 |
| WS-74 / 24V | 43.80 | 35.35 | 1000.00 | 2.09 | 2.25 | 74.00 | 15 | 72 |
| WS-75 / 12V | 21.72 | 17.34 | 1000.00 | 4.33 | 4.60 | 75.00 | 15 | 36 |
| WS-75 / 24V | 43.85 | 35.40 | 1000.00 | 2.12 | 2.28 | 75.00 | 15 | 72 |
| WS-80 / 12V | 21.77 | 17.36 | 1000.00 | 4.61 | 4.90 | 80.00 | 15 | 36 |
| WS-80 / 24V | 43.90 | 35.45 | 1000.00 | 2.26 | 2.43 | 80.00 | 10 | 72 |
| WS-85 / 12V | 21.82 | 17.39 | 1000.00 | 4.89 | 5.19 | 85.00 | 10 | 36 |
| WS-90 / 12V | 21.87 | 17.41 | 1000.00 | 5.17 | 5.49 | 90.00 | 10 | 36 |
| WS-90 / 24V | 43.95 | 35.50 | 1000.00 | 2.54 | 2.73 | 90.00 | 10 | 72 |
| WS-95 / 12V | 21.92 | 17.44 | 1000.00 | 5.45 | 5.78 | 95.00 | 10 | 36 |
| WS-100 / 12V | 22.2 | 17.46 | 1000.00 | 5.73 | 6.07 | 100.00 | 15 | 36 |
| WS-100 / 24V | 44.00 | 35.60 | 1000.00 | 2.81 | 3.03 | 100.00 | 15 | 72 |
| WS-105 / 12V | 22.02 | 17.49 | 1000.00 | 6.01 | 6.36 | 105.00 | 15 | 36 |
| WS-110 / 12V | 22.07 | 17.51 | 1000.00 | 6.28 | 6.65 | 110.00 | 15 | 36 |
| WS-110 / 24V | 44.10 | 35.70 | 1000.00 | 3.08 | 3.33 | 110.00 | 15 | 72 |
| WS-115 / 12V | 22.12 | 17.54 | 1000.00 | 6.56 | 6.93 | 115.00 | 15 | 36 |
| WS-120 / 12V | 22.17 | 17.56 | 1000.00 | 6.83 | 7.22 | 120.00 | 15 | 36 |
| WS-125 / 12V | 22.22 | 17.59 | 1000.00 | 7.11 | 7.50 | 125.00 | 15 | 36 |
| WS-125 / 24V | 44.15 | 35.80 | 1000.00 | 3.49 | 3.78 | 125.00 | 15 | 72 |
| WS-130 / 12V | 22.27 | 17.61 | 1000.00 | 7.38 | 7.78 | 130.00 | 15 | 36 |
| WS-130 / 24V | 44.10 | 35.90 | 1000.00 | 3.62 | 3.93 | 130.00 | 15 | 72 |
| WS-135 / 12V | 22.32 | 17.64 | 1000.00 | 7.66 | 8.06 | 135.00 | 15 | 36 |
| WS-140 / 12V | 22.37 | 17.66 | 1000.00 | 7.93 | 8.34 | 140.00 | 15 | 36 |
| WS-140 | 32.50 | 26.50 | 1000.00 | 5.28 | 5.74 | 140.00 | 15 | 54 |
| WS-140 / 24V | 44.20 | 35.70 | 1000.00 | 3.92 | 4.22 | 140.00 | 15 | 72 |
| WS-145 / 12V | 22.42 | 17.69 | 1000.00 | 8.20 | 8.62 | 145.00 | 15 | 36 |
| WS-150 / 12V | 22.47 | 17.72 | 1000.00 | 8.47 | 8.90 | 150.00 | 15 | 36 |
| WS-150 / 24V | 44.30 | 36.10 | 1000.00 | 4.16 | 4.51 | 150.00 | 15 | 72 |
| WS-155 / 24V | 44.35 | 36.15 | 1000.00 | 4.29 | 4.66 | 155.00 | 15 | 72 |
| WS-160 / 24V | 44.40 | 36.20 | 1000.00 | 4.42 | 4.80 | 160.00 | 15 | 72 |
| WS-165 / 24V | 44.45 | 36.25 | 1000.00 | 4.55 | 4.95 | 165.00 | 15 | 72 |



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| WS-170 / 24V | 44.50 | 36.30 | 1000.00 | 4.68 | 5.09 | 170.00 | 15 | 72 |
| WS-175 | 32.50 | 26.50 | 1000.00 | 6.60 | 7.18 | 175.00 | 15 | 54 |
| WS-180 | 32.60 | 26.60 | 1000.00 | 6.77 | 7.36 | 180.00 | 15 | 54 |
| WS-185 | 32.70 | 26.70 | 1000.00 | 6.93 | 7.54 | 185.00 | 15 | 54 |
| WS-190 | 32.80 | 26.80 | 1000.00 | 7.09 | 7.72 | 190.00 | 15 | 54 |
| WS-190 / 24V | 44.70 | 36.20 | 1000.00 | 5.25 | 5.67 | 190.00 | 15 | 72 |
| WS-195 | 32.90 | 26.90 | 1000.00 | 7.25 | 7.90 | 195.00 | 15 | 54 |
| WS-200 | 33.00 | 27.00 | 1000.00 | 7.41 | 8.08 | 200.00 | 15 | 54 |
| WS-200 / 12V | 22.97 | 17.97 | 1000.00 | 5.51 | 5.95 | 200.00 | 15 | 72 |
| WS-200 / 24V | 44.80 | 36.30 | 1000.00 | 7.70 | 8.33 | 200.00 | 15 | 72 |
| WS-205 | 33.10 | 27.10 | 1000.00 | 7.56 | 8.26 | 205.00 | 15 | 54 |
| WS-210 | 36.40 | 30.00 | 1000.00 | 7.00 | 7.69 | 210.00 | 15 | 60 |
| WS-210 / 12V | 23.07 | 18.02 | 1000.00 | 5.97 | 6.42 | 210.00 | 15 | 72 |
| WS-210 / 24V | 43.60 | 35.15 | 1000.00 | 7.25 | 7.78 | 210.00 | 15 | 72 |
| WS-215 | 36.50 | 30.10 | 1000.00 | 7.14 | 7.85 | 215.00 | 15 | 60 |
| WS-220 | 36.60 | 30.20 | 1000.00 | 7.28 | 8.01 | 220.00 | 15 | 60 |
| WS-220 / 12V | 23.17 | 18.07 | 1000.00 | 6.24 | 6.71 | 220.00 | 15 | 72 |
| WS-220 / 24V | 43.70 | 35.25 | 1000.00 | 7.60 | 8.14 | 220.00 | 15 | 72 |
| WS-225 | 36.70 | 30.30 | 1000.00 | 7.43 | 8.17 | 225.00 | 15 | 60 |
| WS-230 | 36.80 | 30.40 | 1000.00 | 7.57 | 8.33 | 230.00 | 15 | 60 |
| WS-230 / 12V | 23.27 | 18.12 | 1000.00 | 6.51 | 7.00 | 230.00 | 15 | 72 |
| WS-230 / 24V | 43.80 | 35.35 | 1000.00 | 7.94 | 8.51 | 230.00 | 15 | 72 |
| WS-235 | 36.90 | 30.50 | 1000.00 | 7.70 | 8.49 | 235.00 | 15 | 60 |
| WS-240 | 37.00 | 30.60 | 1000.00 | 7.84 | 8.65 | 240.00 | 15 | 60 |
| WS-240 / 12V | 23.37 | 18.17 | 1000.00 | 6.77 | 7.29 | 240.00 | 15 | 72 |
| WS-240 / 24V | 43.90 | 35.45 | 1000.00 | 8.28 | 8.88 | 240.00 | 15 | 72 |
| WS-245 | 37.10 | 30.70 | 1000.00 | 7.98 | 8.81 | 245.00 | 15 | 60 |
| WS-250 | 37.20 | 30.80 | 1000.00 | 8.12 | 8.96 | 250.00 | 15 | 60 |
| WS-250 / 12V | 23.47 | 18.22 | 1000.00 | 7.03 | 7.58 | 250.00 | 15 | 72 |
| WS-250 / 24V | 44.00 | 35.55 | 1000.00 | 8.63 | 9.25 | 250.00 | 15 | 72 |
| WS-255 | 37.30 | 30.90 | 1000.00 | 8.25 | 9.12 | 255.00 | 15 | 60 |
| WS-255 / 24V | 44.10 | 35.60 | 1000.00 | 7.16 | 7.71 | 255.00 | 15 | 72 |
| WS-260 / 24V | 44.20 | 35.70 | 1000.00 | 7.28 | 7.84 | 260.00 | 15 | 72 |
| WSM-255 | 36.50 | 30.00 | 1000.00 | 8.50 | 9.00 | 255 | 15 | 60 |
| WSM-260 | 36.60 | 30.25 | 1000.00 | 8.60 | 9.15 | 260 | 15 | 60 |
| WSM-265 | 36.70 | 30.50 | 1000.00 | 8.70 | 9.30 | 265 | 15 | 60 |
| WSM-270 | 37.20 | 30.90 | 1000.00 | 8.75 | 9.40 | 270 | 15 | 60 |
| WSM-275 | 37.40 | 31.10 | 1000.00 | 8.85 | 9.55 | 275 | 15 | 60 |



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| WSM-280 | 37.60 | 31.40 | 1000.00 | 8.93 | 9.65 | 280 | 15 | 60 |
| WSM-285 | 37.90 | 31.50 | 1000.00 | 9.05 | 9.75 | 285 | 15 | 60 |
| WSM-290 | 38.20 | 31.60 | 1000.00 | 9.20 | 9.80 | 290 | 15 | 60 |
| WSM-295 | 38.50 | 31.80 | 1000.00 | 9.28 | 9.85 | 295 | 15 | 60 |
| WSM-300 | 38.80 | 32.00 | 1000.00 | 9.38 | 9.95 | 300 | 15 | 60 |
| WSM-320 | 45.20 | 36.20 | 1000.00 | 8.85 | 9.20 | 320 | 15 | 72 |
| WSM-325 | 45.40 | 36.40 | 1000.00 | 8.94 | 9.30 | 325 | 15 | 72 |
| WSM-330 | 45.60 | 36.55 | 1000.00 | 9.03 | 9.40 | 330 | 15 | 72 |
| WSM-335 | 45.80 | 36.70 | 1000.00 | 9.13 | 9.50 | 335 | 15 | 72 |
| WSM-340 | 46.00 | 36.90 | 1000.00 | 9.22 | 9.60 | 340 | 15 | 72 |
| WSM-345 | 46.20 | 37.20 | 1000.00 | 9.28 | 9.70 | 345 | 15 | 72 |
| WSM-350 | 46.40 | 37.50 | 1000.00 | 9.35 | 9.80 | 350 | 15 | 72 |
| WSM-355 | 46.60 | 37.65 | 1000.00 | 9.43 | 9.85 | 355 | 15 | 72 |
| WSM-360 | 46.80 | 37.90 | 1000.00 | 9.50 | 9.90 | 360 | 15 | 72 |

