

# SHARP

NU-RD285 | 285 W  
NU-RD290 | 290 W  
NU-RD295 | 295 W  
NU-RD300 | 300 W

The design solution  
**285/290/295/300 W**  
Mono black



## For your independence

Take advantage of solar panels + battery solutions for maximum independence



55 years of solar expertise



### Proven Quality

VDE, IEC/EN 61215, IEC/EN61730  
Safety Class II / CE  
MCS accredited product  
ISO 9001 / ISO 14001



Top PV brand award



Guaranteed positive power tolerance  
(0/+5 %)



Monocrystalline silicon photovoltaic modules



Robust product design  
(PID resistance)



10 YEARS Product guarantee



25 YEARS Linear power output guarantee



Up to 18.3 % module efficiency



Made in Germany

| Electrical data (STC)             |           |          |          |          |          |       |
|-----------------------------------|-----------|----------|----------|----------|----------|-------|
|                                   |           | NU-RD300 | NU-RD295 | NU-RD290 | NU-RD285 |       |
| Maximum power                     | $P_{max}$ | 300      | 295      | 290      | 285      | $W_p$ |
| Open-circuit voltage              | $V_{oc}$  | 39.4     | 39.3     | 39.3     | 39.2     | V     |
| Short-circuit current             | $I_{sc}$  | 9.97     | 9.87     | 9.80     | 9.73     | A     |
| Voltage at point of maximum power | $V_{mpp}$ | 31.2     | 31.3     | 31.3     | 31.3     | V     |
| Current at point of maximum power | $I_{mpp}$ | 9.63     | 9.42     | 9.25     | 9.1      | A     |
| Module efficiency                 | $\eta_m$  | 18.3     | 18.0     | 17.6     | 17.3     | %     |

STC = Standard Test Conditions: irradiance 1,000 W/m<sup>2</sup>, AM 1.5, cell temperature 25 °C.

Rated electrical characteristics are within  $\pm 10\%$  of the indicated values of  $I_{sc}$ ,  $V_{oc}$  and 0 to +5 % of  $P_{max}$  (power measurement tolerance  $\pm 3\%$ ).

Reduction of efficiency from an irradiance of 1,000 W/m<sup>2</sup> to 200 W/m<sup>2</sup> ( $T_{module} = 25\text{ }^{\circ}\text{C}$ ) is less than 2 %.

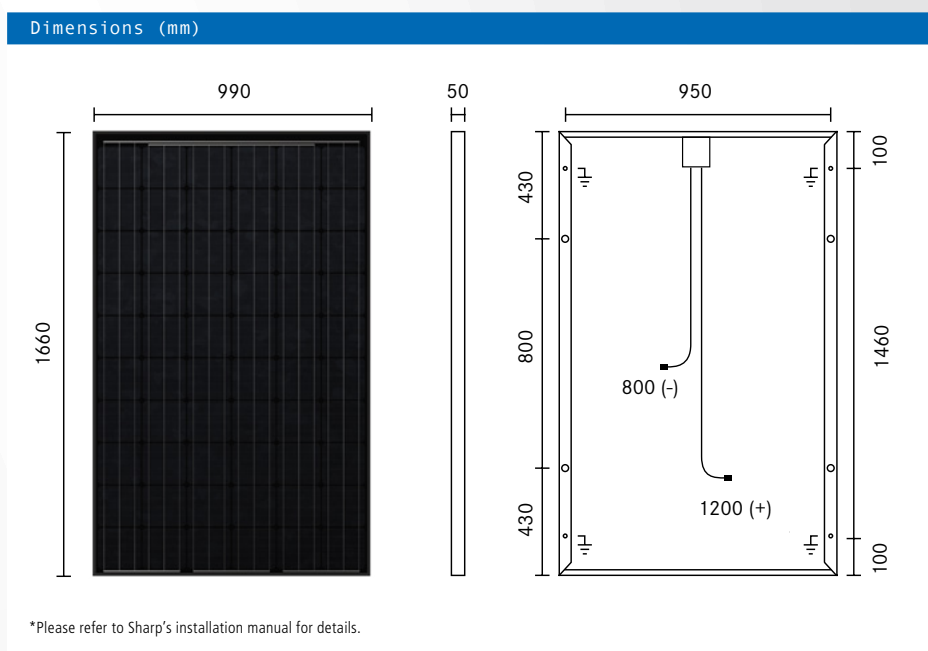
| Electrical data (NOCT)            |           |          |          |          |          |       |
|-----------------------------------|-----------|----------|----------|----------|----------|-------|
|                                   |           | NU-RD300 | NU-RD295 | NU-RD290 | NU-RD285 |       |
| Maximum power                     | $P_{max}$ | 219      | 215      | 211      | 207      | $W_p$ |
| Open-circuit voltage              | $V_{oc}$  | 36.3     | 36.2     | 36.0     | 36.0     | V     |
| Short-circuit current             | $I_{sc}$  | 8.07     | 7.99     | 7.93     | 7.88     | A     |
| Voltage at point of maximum power | $V_{mpp}$ | 28.5     | 28.4     | 28.3     | 28.3     | V     |
| Current at point of maximum power | $I_{mpp}$ | 7.72     | 7.59     | 7.45     | 7.33     | A     |
| Module efficiency                 | $\eta_m$  | 16.7     | 16.4     | 16.0     | 15.7     | %     |

Electrical values measured under nominal operating conditions of cells : 800 W/m<sup>2</sup> irradiance, air temperature of 20 °C, wind speed of 1 m/s. NOCT : 49 °C (nominal operating cell temperature).

| Temperature coefficient |            |
|-------------------------|------------|
| $P_{max}$               | -0.40 %/°C |
| $V_{oc}$                | -0.29 %/°C |
| $I_{sc}$                | 0.05 %/°C  |

| Mechanical data |          |
|-----------------|----------|
| Length          | 1,660 mm |
| Width           | 990 mm   |
| Depth           | 50 mm    |
| Weight          | 20 kg    |

| Limit values                           |              |
|----------------------------------------|--------------|
| Maximum system voltage                 | 1,000 V      |
| Over-current protection                | 20 A         |
| Temperature range                      | -40 to 85° C |
| Max. mechanical load (snow/wind)       | 2,400 Pa     |
| Tested snow load (IEC61215 test pass*) | 5,400 Pa     |



| General data   |                                                                | Packaging data               |                        |
|----------------|----------------------------------------------------------------|------------------------------|------------------------|
| Cells          | monocrystalline, 156 mm × 156 mm, 60 cells in series           | Modules per pallet           | 22 pcs                 |
| Front glass    | low iron tempered glass, 3.2 mm                                | Pallet size (L × W × H)      | 1.2 m × 1.0 m × 1.85 m |
| Frame          | anodized aluminium alloy, black                                | Pallet weight                | approx. 477 kg         |
| Connection box | PPE/PPO resin, IP67 Rating, 148 x 123 x 27 mm, 3 bypass diodes | Modules packed in one carton | 22 pcs                 |
| Cable          | CE cable, length 1,200 mm (+), 800 mm (-)                      |                              |                        |
| Connector      | MC4                                                            |                              |                        |

Empower yourself

[www.sharp.eu](http://www.sharp.eu)

**SHARP**

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