



10-year product guarantee



12-year guarantee for 90% rated power



25-year guarantee for 80% rated power



ECO LINE

60/240 – 250 W

Monocrystalline module family



Longlife tested



Power proofed



Safety provided



Selection of components



Cross-linking degree test



Performance surplus of 1.5 to 6.5 Wp



Imp sorting



Special packing to avoid micro cracks in the cells



German warrantor

The 60-cell module is the large-size all-rounder among the Luxor modules. Eco in this case means especially economical: The high wattage makes the module the ideal solution for industrial scale equipments. From the open-field facilities, through the tracking system, to the roof-mounted installation. High-quality solar cell with an efficiency up to 18.1% at the best possible low light behaviour ensure the best energy output. And this at plus tolerances of 1.5 to 6.5 Wp.

Exemplary in the manufacturing quality, too: An especially durable plug-in connection guarantees the best power contact under all conditions, and the hollow-section frame made of anodised aluminium and compatible with every assembly system, is torsionally stiff and corrosion-free. Manufactured according to German standards and under the strict eyes of our engineers, each Luxor photovoltaic module is marked by a special level of durability and reliability.

ECO LINE ECO LINE 60/240 – 250 W

Monocrystalline module family

Electrical data	LX-240M	LX-245M	LX-250M
Rated power P _{mpp} [Wp]	240.00	245.00	250.00
P _{mpp} range	241.50 - 246.49	246.50 - 251.49	251.5 - 256.49
Rated current I _{mpp} [A]	7.95	8.04	8.13
Rated voltage V _{mpp} [V]	30.22	30.48	30.74
Short-circuit current I _{sc} [A]	8.45	8.53	8.61
Open-circuit voltage [V]	37.21	37.31	37.41
Efficiency at STC	14.75%	15.06%	15.37%
Efficiency at 200 W/m ²	13.87%	14.15%	14.48%
NOCT [°C]	45 ± 2°C	45 ± 2°C	45 ± 2°C

Specification as per STC: 1000 W/m², 25°C, AM 1.5 / STC irradiance: 1000 W/m²,
Module temperature: 25°C, AM=1.5 | NOCT: 47°C

Limiting values	LX-240M / LX-245M / LX-250M
Max. system voltage [V]	1000 V
Max. return current [I]	15 A
Temperature range	-40 to 85°C
Snow-load zone ¹	approval up to SLZ 3 (according to DIN 1055)
Max. pressure load (static)	5400 Pa

Temperature coefficient	LX-240M / LX-245M / LX-250M
Temperature coefficient [V] [I] [P]	-0.34% /°C 0.05% /°C -0.45% /°C

Specifications	LX-240M / LX-245M / LX-250M
Number of cells (matrix)	6 x 10, three strings in a row
Cell size	156 mm x 156 mm
Module dimensions (L x W x H) ² Weight	1,640 mm x 992 mm x 45 mm 21.0 kg
Front-side glass	3.2 mm hardened solar glass with low iron content
Frame	stable, anodised aluminium frame in a hollow-section design
Socket	plastic (PPO), IP65, ventilated and strain-relieved
Cable	4 mm ² solar cable, cable length 1.0 m
Plug-in connection	high-quality plug-in system, (IP65) MC4 or equivalent
Hail test (max. hailstorm)	∅ 45 mm impact velocity 23 m/s
General technical approval	classified according to DIN EN 13501-5 as B _{ROOF} (t1)

Packing	LX-240M / LX-245M / LX-250M
Packing unit	22 modules, 2 I _{mpp} classes 28 PU/40' container
Dimensions (L x W x H) Weight	174 cm x 114 cm x 121 cm 538 kg gross

The specifications and average values can vary slightly. Decisive is the corresponding data of the individual measurement.
Specifications are subject to change without notice. Status: May 2010, measurement tolerance: rated power +/- 4%, other values +/- 10%, all information in this data sheet corresponds to DIN 50380, other information to be found in the installation guidelines

- For standing installation
- Tolerance L/W = +/- 3 mm, H = the dimensions given in the order confirmation will be decisive
- Location on request

Luxor, your specialised company

Guidelines:
2006/95/EG - 2006/95/EC
89/336/EEG - 89/336/EEC
93/68/EEG - 93/68/EEC

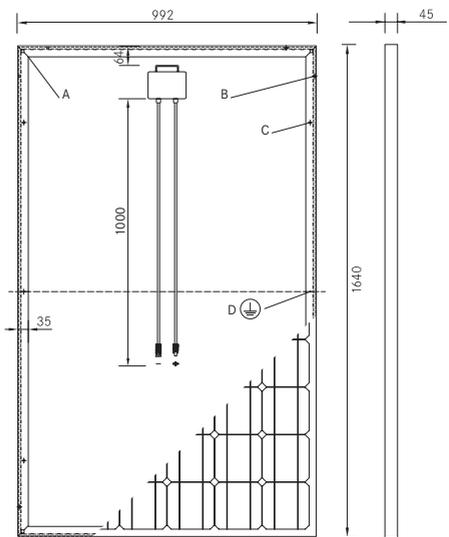


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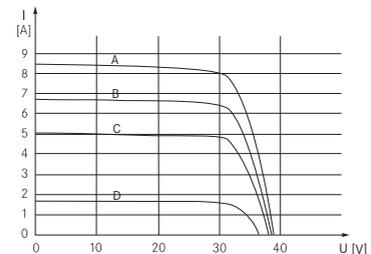
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Back view/ Front view/ Side view²

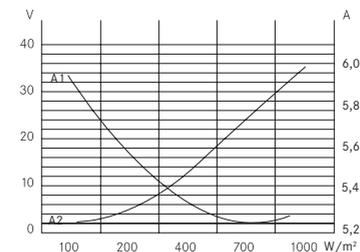


- A: 4 x drainage 10*10 mm
- B: 8 x ventilation aperture d = 7 mm
- C: 8 x mounting hole d = 7 mm³
- D: 2 x earthing d = 2 mm

Characteristics



- A: 1000 W/m² | B: 800 W/m²
- C: 600 W/m² | D: 200 W/m²



- A1: I_{mpp} | A2: V_{mpp}



10-year product guarantee



12-year guarantee for 90% rated power



25-year guarantee for 80% rated power



ECO LINE

60/225 - 235 W

Polycrystalline module family



Longlife tested



Power proofed



Safety provided



Selection of components



Cross-linking degree test



Performance surplus of 1.5 to 6.5 Wp



Imp sorting



Special packing to avoid micro cracks in the cells



German warrantor

The 60-cell module is the large-size all-rounder among the Luxor modules. Eco in this case means especially economical: The high wattage makes the module the ideal solution for industrial scale equipments. From the open-field facilities, through the tracking system, to the roof-mounted installation. High-quality solar cell with an efficiency of over 17% at the best possible low light behaviour ensure the best energy output. And this at plus tolerances of 1.5 to 6.5 Wp.

Exemplary in the manufacturing quality, too: An especially durable plug-in connection guarantees the best power contact under all conditions, and the hollow-section frame made of anodised aluminium and compatible with every assembly system, is torsionally stiff and corrosion-free. Manufactured according to German standards and under the strict eyes of our engineers, each Luxor photovoltaic module is marked by a special level of durability and reliability.

ECO LINE ECO LINE 60/225 - 235 W

Polycrystalline module family

Electrical data	LX-225P	LX-230P	LX-235P
Rated power P _{mpp} [Wp]	225.00	230.00	235.00
P _{mpp} range	226.50 - 231.49	231.50 - 236.49	236.50 - 241.49
Rated current I _{mpp} [A]	7.62	7.73	7.84
Rated voltage V _{mpp} [V]	29.60	29.80	30.10
Short-circuit current I _{sc} [A]	8.14	8.22	8.39
Open-circuit voltage [V]	37.00	37.00	37.55
Efficiency at STC	13.83%	14.13%	14.44%
Efficiency at 200 W/m ²	13.41%	13.71%	14.02%
NOCT [°C]	47 ± 2°C	47 ± 2°C	47 ± 2°C

Specification as per STC: 1000 W/m², 25°C, AM 1.5 / STC irradiance: 1000 W/m²,
Module temperature: 25°C, AM=1.5 | NOCT: 47°C

Limiting values	LX-225P / LX-230P / LX-235P
Max. system voltage [V]	1000 V
Max. return current [I]	15 A
Temperature range	-40 to 85°C
Snow-load zone ¹	approval up to SLZ 3 (according to DIN 1055)
Max. pressure load (static)	5400 Pa

Temperature coefficient	LX-225P / LX-230P / LX-235P
Temperature coefficient [V] [I] [P]	-0.32% / °C 0.05% / °C -0.45% / °C

Specifications	LX-225P / LX-230P / LX-235P
Number of cells (matrix)	6 x 10, three strings in a row
Cell size	156 mm x 156 mm
Module dimensions (L x W x H) ² Weight	1,640 mm x 992 mm x 45 mm 21.0 kg
Front-side glass	3.2 mm hardened solar glass with low iron content
Frame	stable, anodised aluminium frame in a hollow-section design
Socket	plastic (PPO), IP65, ventilated and strain-relieved
Cable	4 mm ² solar cable, cable length 1.0 m
Plug-in connection	high-quality plug-in system, (IP65) MC4 or equivalent
Hail test (max. hailstorm)	∅ 45 mm impact velocity 23 m/s
General technical approval	classified according to DIN EN 13501-5 as B _{ROOF} (t1)

Packing	LX-225P / LX-230P / LX-235P
Packing unit	22 modules, 2 I _{mpp} classes 28 PU/40' container
Dimensions (L x W x H) Weight	174 cm x 114 cm x 121 cm 538 kg gross

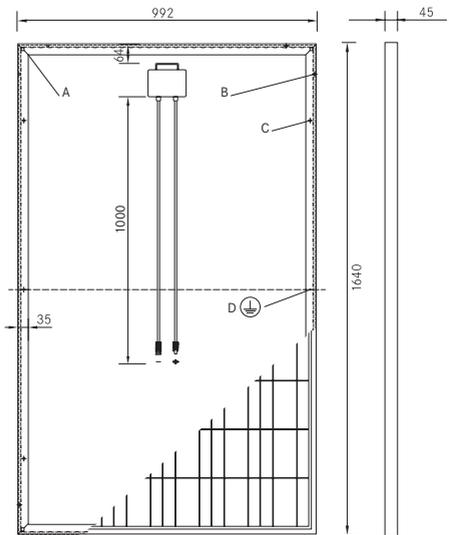
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1 For standing installation

2 Tolerance L/W = +/- 3 mm, H = the dimensions given in the order confirmation will be decisive

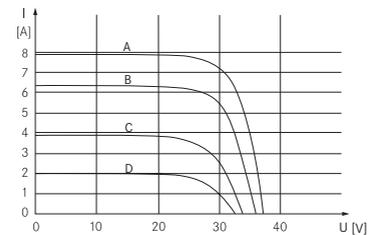
3 Location on request

Back view/ Front view/ Side view²

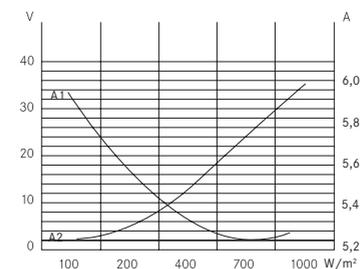


- A: 4 x drainage 10*10 mm
- B: 8 x ventilation aperture d = 7 mm
- C: 8 x mounting hole d = 7 mm³
- D: 2 x earthing d = 2 mm

Characteristics



- A: 1000 W/m² | B: 800 W/m²
- C: 500 W/m² | D: 250 W/m²



- A1: I_{mpp} | A2: V_{mpp}

Luxor, your specialised company

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12-year guarantee for 90% rated power



25-year guarantee for 80% rated power



ECO LINE

72/180 – 190 W

Monocrystalline module family



Longlife tested



Power proofed



Safety provided



Selection of components



Cross-linking degree test



Performance surplus of 1.5 to 6.5 Wp



Imp sorting



Special packing to avoid micro cracks in the cells



German warrantor

Wherever flexibility is especially sought after, this module is in top form. With its dimension in a 1:2 ratio, it can always be optimally arranged in every roof covering and open-field installation. Our 72-cell module portrays a positive image with plus tolerances of 1.5 to 6.5 Wp, through exemplary energy output.

This is achieved through high-quality solar cell with an efficiency of over 17% at the best possible low light behaviour.

A durable plug-in connection guarantees reliable power contact for every weather. Compatible with current assembly systems through the torsionally stiff and corrosion-free hollow-section frame made of anodised aluminium. Manufactured according to German standards and under the strict eyes of our engineers, each Luxor photovoltaic module is marked by a special level of durability and reliability.

ECO LINE ECO LINE 72/180 - 190 W

Monocrystalline module family

Electrical data	LX-180M	LX-185M	LX-190M
Rated power P _{mpp} [Wp]	180.00	185.00	190.00
P _{mpp} range	181.50 - 186.49	186.50 - 191.49	191.50 - 196.49
Rated current I _{mpp} [A]	5.03	5.14	5.26
Rated voltage V _{mpp} [V]	35.83	36.00	36.18
Short-circuit current I _{sc} [A]	5.53	5.62	5.71
Open-circuit voltage [V]	43.35	43.58	43.81
Efficiency at STC	14.10%	14.49%	14.88%
Efficiency at 200 W/m ²	13.26%	13.72%	14.08%
NOCT [°C]	47 ± 2°C	47 ± 2°C	47 ± 2°C

Specification as per STC: 1000 W/m², 25°C, AM 1.5 / STC irradiance: 1000 W/m²,
Module temperature: 25°C, AM=1.5 | NOCT: 47°C

Limiting values	LX-180M / LX-185M / LX-190M
Max. system voltage [V]	1000 V
Max. return current [I]	12A
Temperature range	-40 to 85°C
Snow-load zone ¹	approval up to SLZ 3 (according to DIN 1055)
Max. pressure load (static)	5400 Pa

Temperature coefficient	LX-180M / LX-185M / LX-190M
Temperature coefficient [V] [I] [P]	-0.35% /°C 0.04% /°C -0.45% /°C

Specifications	LX-180M / LX-185M / LX-190M
Number of cells (matrix)	6 x 12, three strings connected in series
Cell size	125 mm x 125 mm (diagonal: 165 mm)
Module dimensions (L x W x H) ² Weight	1,580 mm x 808 mm x 35 mm 15.0 kg
Front-side glass	3.2 mm hardened solar glass with low iron content
Frame	stable, anodised aluminium frame in a hollow-section design
Socket	plastic (PPO), IP65, ventilated and strain-relieved
Cable	4 mm ² solar cable, cable length 1.0 m
Plug-in connection	high-quality plug-in system, (IP65) MC4 or equivalent
Hail test (max. hailstorm)	∅ 45 mm impact velocity 23 m/s
General technical approval	classified according to DIN EN 13501-5 as B _{ROOF} (t1)

Packing	LX-180M / LX-185M / LX-190M
Packing unit	28 modules, 2 I _{mpp} classes 28 PU/40' container
Dimensions (L x W x H) Weight	168 cm x 110 cm x 105 cm 466 kg gross

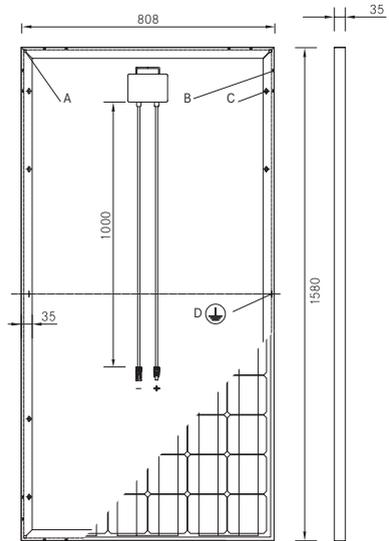
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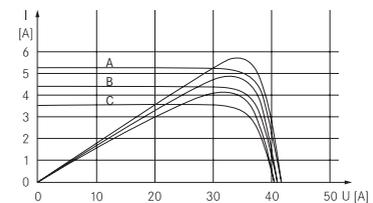
3 Location on request

Back view/ Front view/ Side view²

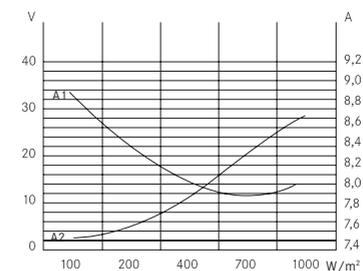


A: 4 x drainage 10*10 mm
B: 16 x ventilation aperture 3*7 mm
C: 8 x mounting hole 14*9 mm³
D: 2 x earthing d = 2 mm

Characteristics



A: 1000 W/m² | B: 800 W/m² | C: 600 W/m²



A1: I_{mpp} | A2: V_{mpp}

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Guidelines:
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