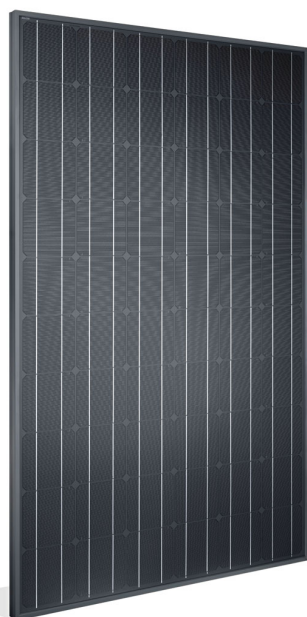


First-class modules from the P-Z-M range

M660250, M660245, M660240, M660235, M660230, M660225, M660220 and M660215 BLK photovoltaic modules

ELECTRICITY FROM SUNLIGHT



certified in accordance with



TECHNICAL CHARACTERISTICS

- ▶ positive sorting
- ▶ solar safety glass
- ▶ corrosion-resistant aluminium frame
- ▶ easy to install using pre-fitted MC4 connector
- ▶ manufacturer's guarantee 10 years
- ▶ output guarantee 90% - 10 y.
80% - 25 y.

ELECTRICAL CHARACTERISTICS*

Modul Typ		M660250 250 Watts	M660245 245 Watts	M660240 240 Watts	M660235 235 Watts	M660230 230 Watts	M660225 225 Watts	M660220 220 Watts	M660215 215 Watts
Power tolerances (positive selection)	Pm(W)	0..+4,9	0..+4,9	0..+4,9	0..+4,9	0..+4,9	0..+4,9	0..+4,9	0..+4,9
Open circuit voltage	(Voc)	38,00	37,78	37,56	37,50	37,32	37,02	36,96	36,94
Short circuit current	Isc (A)	8,40	8,34	8,29	8,26	8,18	8,11	8,09	8,05
Max. power voltage MPP	Vm(V)	31,49	31,35	31,20	30,96	30,48	30,00	29,82	29,70
Max. power current MPP	Im(A)	7,94	7,82	7,69	7,59	7,55	7,50	7,38	7,24
module efficiency	(%)	15,30	14,95	14,65	14,35	14,04	13,74	13,43	13,13
cell efficiency	(%)	17,63	17,22	16,88	16,63	16,13	15,63	15,38	15,13
Maximum system voltage	(V)	DC1000							
Temperature coefficient of Isc (α)	(%/°C)	0,03							
Temperature coefficient of Voc (β)	(%/°C)	-0,31							
Temperature coefficient of Pmax (γ)	(%/°C)	-0,37							
operating temperature	(°C)	-40° bis 85°							
nominal cell temperature	(°C)	45° + 2°							
number of diodes	units	6							
reverse current carrying capacity	(A)	15							
insulation resistance	(MΩ)	50							
permitted wind load	(Pa)	≤ 5400							
permitted module load	(Pa)	≤ 2400							

standard test conditions (STC): 1000 W / m² AM 1,5 / 25 °C, **accuracy of measurement +/- 3 %, ***Basic conditions of insurance available on request

PHYSICAL CHARACTERISTICS

cell type		mono-crystalline silicon
cell dimensions	mm (inches)	156 x 156 (6")
number of cells	(St.)	60 cells in rows (6 x 10)
module dimensions	(mm)	1637 x 992 x 48
drainage in frame	units	16
glass	(mm)	3,2 mm High Transmission, Low Iron
connector plug & cable length	(mm)	MC4 compatible / 900 mm

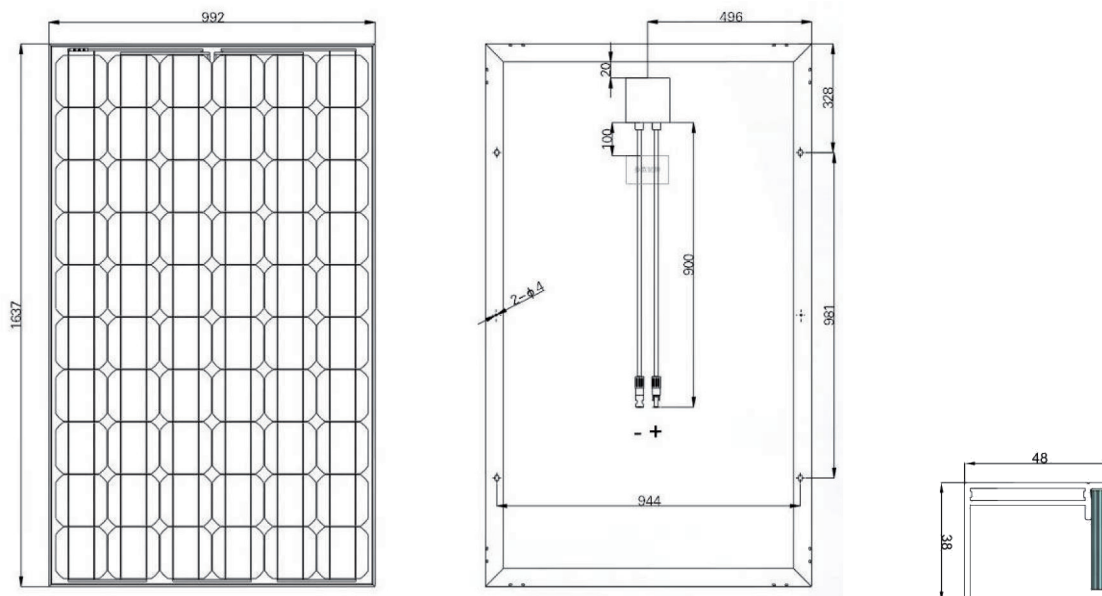
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First-class modules from the P-Z-M range

M660250, M660245, M660240, M660235, M660230, M660225, M660220 and M660215 photovoltaic modules

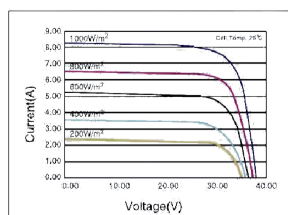
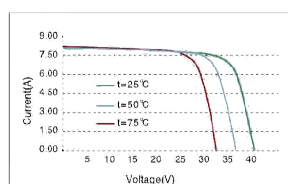
Your pension from the sun

Technical drawing



dimensions (mm)	1637 x 992 x 48	weight including packaging (kg)	20
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temperature and part-load behaviour



		800 W / m ²	600 W / m ²	400 W / m ²	300 W / m ²	200 W / m ²	100 W / m ²
PZM-M660215	VMPP	29,41	29,03	28,50	28,13	27,95	26,71
	IMPP	5,81	4,32	2,88	2,16	1,43	0,72
PZM-M660220	VMPP	29,53	29,15	28,62	28,25	28,06	26,83
	IMPP	5,92	4,41	2,94	2,20	1,45	0,73
PZM-M660225	VMPP	29,71	29,33	28,80	28,43	28,23	27,00
	IMPP	6,02	4,48	2,99	2,24	1,48	0,75
PZM-M660230	VMPP	30,19	29,81	29,28	28,91	28,68	27,48
	IMPP	6,06	4,51	3,00	2,25	1,49	0,75
PZM-M660235	VMPP	30,67	30,29	29,76	29,39	29,13	27,96
	IMPP	6,09	4,53	3,02	2,27	1,50	0,76
PZM-M660240	VMPP	30,91	30,53	30,00	29,63	29,36	28,20
	IMPP	6,14	4,59	3,06	2,30	1,52	0,77
PZM-M660245	VMPP	31,06	30,68	30,15	29,78	29,50	28,34
	IMPP	6,27	4,67	3,11	2,33	1,54	0,78
PZM-M660250	VMPP	31,20	30,82	30,29	29,91	29,63	28,48
	IMPP	6,37	4,74	3,16	2,37	1,57	0,79

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