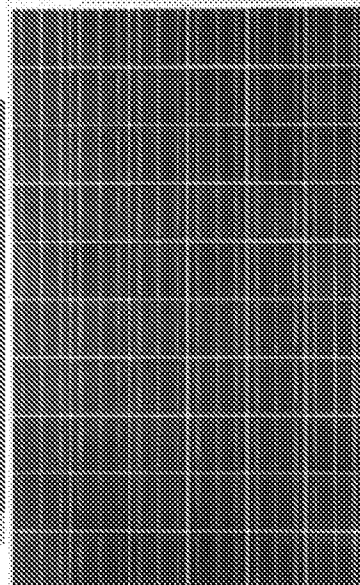


LIGHTWAY SOLAR MODULE

P 1640 × 990 Series
KEY FEATURES



16.01%
Max Efficiency

260W
Max Peak Power

10 YEAR
Product Warranty

25 YEAR
Linear Power Warranty



Positive Tolerance 0-5W
Provides our customers with maximum power output



Electric Current Classification
System output maximized by reducing mismatch losses up to 2% with modules sorted and package by amperage



Excellent weak light performance
Relative change of module efficiency at 200W/m² is less than 4%



Upto 5400Pa Mechanical load
Module certified to withstand extreme wind and snow loads

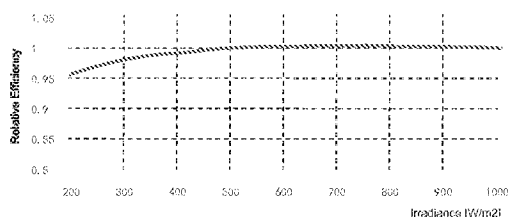


Passed Ammonia Gas and Salt Mist Corrosion Resistance Test
Tested and approved by TUV Rheinland according IEC 62716 Draft C and FprEN 61701 Ed.2

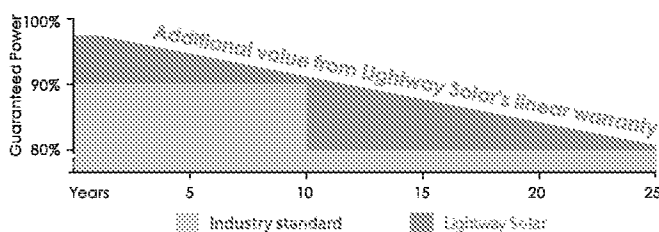


ISO 9001:2008 - ISO 14001:2004 - OHSAS 18001:2007

PERFORMANCE AT LOW IRRADIANCE



The typical relative change in module efficiency at an irradiance of 200W/m² in relation to 1000W/m² (both at 25°C and AM 1.5 spectrum) is less than 4%.



LINEAR WARRANTY

- 10-year warranty on materials and workmanship
- 25-year warranty > 80% power output
- 3% degradation rate the first year
- 0.68% yearly linear degradation

ELECTRICAL DATA @ STC

Module Type		100-200W P1040-1000	100-200W P1040-1000	100-200W P1040-1000	100-200W P1040-1000	100-200W P1040-1000	100-200W P1040-1000
Peak Power_Pmax	W	260	255	250	245	240	235
Power tolerance_ΔPmax	W	±4.5					
Voltage at Pmax_Vmpp	V	30.25	30.40	29.95	29.80	29.65	29.50
Current at Pmax_Imp	A	8.61	8.48	8.36	8.24	8.11	7.98
Open Circuit Voltage_Voc	V	37.95	37.88	37.80	37.60	37.40	37.30
Short Circuit Current_Isc	A	9.66	8.90	8.78	8.69	8.56	8.45
Module Efficiency_η	%	16.61%	15.71%	15.40%	15.09%	14.78%	14.47%

Values at standard test condition STC: air mass AM 1.5, irradiance 1000W/m², cells temperature 25 °C

ELECTRICAL DATA @ NOCT

Module Type		100-200W P1040-1000	100-200W P1040-1000	100-200W P1040-1000	100-200W P1040-1000	100-200W P1040-1000	100-200W P1040-1000
Peak Power_Pmax	W	211	207	204	199	195	191
Voltage at Pmax_Vmpp	V	31.51	31.48	31.34	31.62	30.87	30.43
Current at Pmax_Imp	A	6.71	6.59	6.50	6.43	6.33	6.27
Open Circuit Voltage_Voc	V	38.07	38.01	37.93	37.63	37.53	37.23
Short Circuit Current_Isc	A	7.22	7.10	7.00	6.93	6.83	6.74

Nominal operating cell temperature NOCT: irradiance 800W/m², ambient temperature 20 °C, wind speed 1m/s

TEMPERATURE RATING

Nominal operating cell temperature(NOCT)	°C	45±1
Temperature Coefficient of Pmax	%/°C	-0.4264
Temperature Coefficient of Isc	%/°C	0.6654
Temperature Coefficient of Voc	%/°C	-0.3215

MAXIMUM RATING

Max. System Voltage	1000Vdc
Operating Temperature	-40 ~ +85 °C
Max. Series Fuse Rating	15A
Max. Reverse Current	15A
Max. Mechanical load	5400Pa

CONSTRUCTION MATERIALS

Solar cells	60-multicrystalline silicon cells, 156mm*156mm
Glass	3.2mm low-iron tempered glass
Encapsulant	ethylene vinyl acetate(EVA)
Frame	anodized aluminium alloy(aluminum)
Junction Box	100% rate-4, 3/8 diodes
Cable	4mm² PV cable, 900mm/1200mm
Connector	MC4 compatible

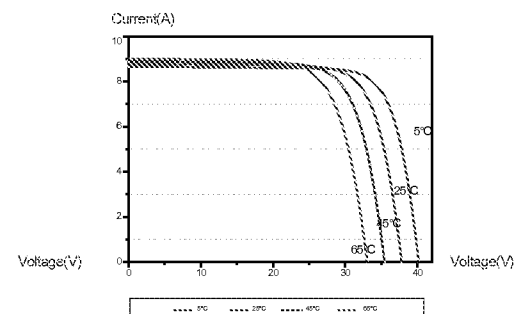
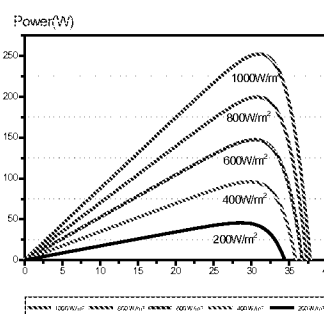
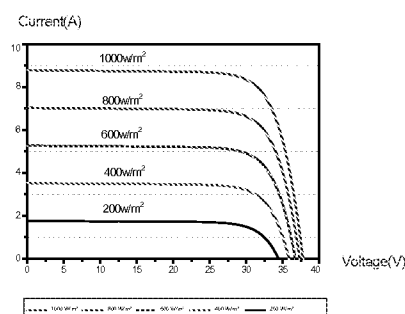
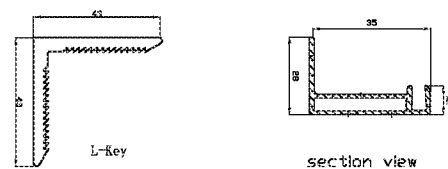
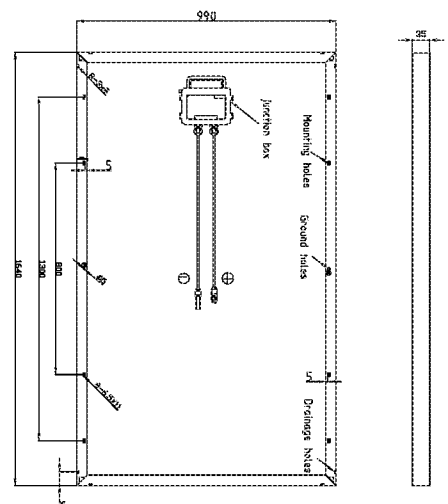
GENERAL DATA

Module Dimension(LxWxH)	1640*990*35mm
Weight	19kg

PACKING

Modules per pallet	29
Pallets per 40' container	28
Packing box dimension(L*W*H)	1700*1150*1040mm
Box weight	537kg

Unit:mm



MKT-20130231