

SunForte PM096B00

Mono-Crystalline
Photovoltaic Module



20%
EFF.

315W_p
327W_p

Power Range
315 ~ 327W_p



Highly Strengthened Design

Module complies with advanced loading tests to meet 5400 Pa loading requirements



Resistance to Salt Corrosion and Humidity

Module complies with IEC 61701: Salt Mist Corrosion Testing



Back Contact Cells

No string in the front side enhances light conversion space



IP-67 Rated Junction Box

Advanced water and dust proof level



Transformer less

Validates the compatibility with transformer-less inverters at high system voltage.



PID-Free



BenQ
Solar

SunForte PM096B00 (315~327 W_p)

Electrical Data

Typ. Nominal Power P _N	315 W	320 W	325 W	327 W
Typ. Module Efficiency	19.3%	19.6%	19.9%	20.1%
Typ. Nominal Voltage V _{mp} (V)	54.7	54.7	54.7	54.7
Typ. Nominal Current I _{mp} (A)	5.76	5.86	5.94	5.98
Typ. Open Circuit Voltage V _{oc} (V)	64.6	64.8	64.9	64.9
Typ. Short Circuit Current I _{sc} (A)	6.14	6.27	6.39	6.46
Maximum Tolerance of P _N	0 / +3%			

• Above data are the effective measurement at Standard Test Conditions (STC)
 • STC: irradiance 1000 W/m², spectral distribution AM 1.5, temperature 25 ± 2 °C, in accordance with EN 60904-3
 • The given electrical data are nominal values which account for basic measurements and manufacturing tolerances of ±10%, with the exception of P_N. The classifications is performed according to P_N

Temperature Coefficient

NOCT	45 ± 2 °C
Typ. Temperature Coefficient of P _N	-0.38 % / K
Typ. Temperature Coefficient of V _{oc}	-0.27 % / K
Temperature Coefficient of I _{sc}	0.06 % / K

• NOCT: Normal Operation Cell Temperature, measuring conditions: irradiance 800 W/m², AM 1.5, air temperature 20 °C, wind speed 1 m/s

Mechanical Characteristics

Dimensions (L x W x H)	1559 x 1046 x 46 mm (61.38 x 41.18 x 1.81 in)
Weight	18.6 kg (41.0 lbs)
Front Glass	High transmission tempered glass with AR-Tech, 3.2 mm (0.13 in)
Cell	96 high efficiency back contact cells, 125 x 125 mm (5" x 5")
Back Sheet	Composite film
Frame	Anodized aluminum frame
Junction Box	IP-67 rated with 3 bypass diodes
Cables	1 x 4 mm ² (0.04 x 0.16 inch ²), length: each 1.0 m (39.37 in)
Connector Type	MC4 compatible

Operating Conditions

Operating Temperature	-40 ~ +80 °C
Ambient Temperature Range	-40 ~ +45 °C
Max. System Voltage IEC	1000 V
Serial Fuse Rating	20A
Maximum Surface Load Capacity	Tested up to 5400 Pa according to IEC 61215 (advanced test)

Warranties and Certifications

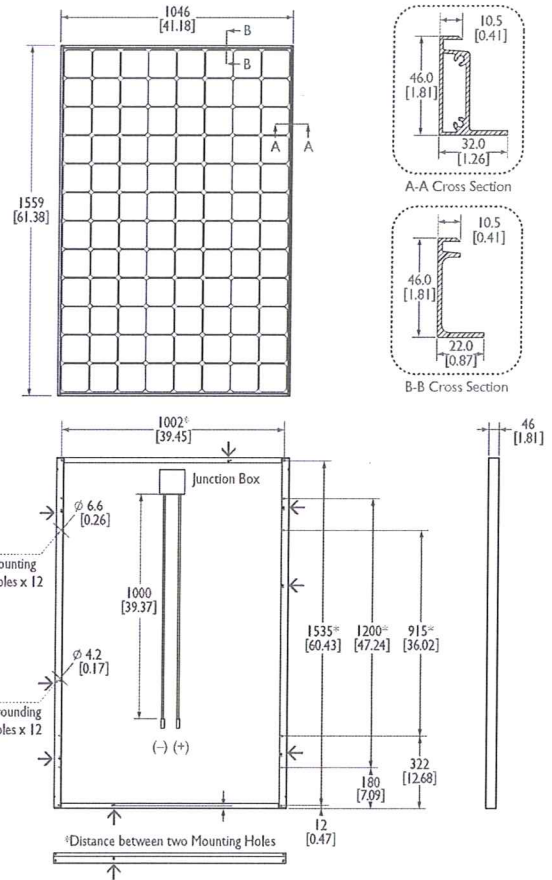
Product Warranty	Maximum 10 years for material and workmanship
Performance Guarantee	Guaranteed output of 90% for 10 years and 80% for 25 years
Certifications	According to IEC 61215, IEC 61730 and UL 1703 guidelines *

* Please confirm other certifications with official dealers

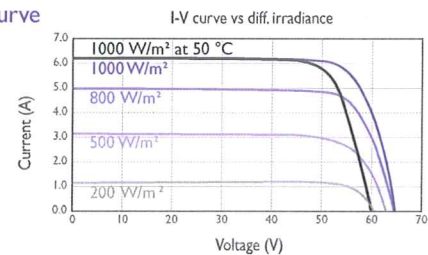
Packing configuration

Container	20' GP	40' GP	40' HQ
Pieces per pallet	22	22	22
Pallets per container	6	14	28
Pieces per container	132	308	616

Dimensions mm [inch]



I-V Curve



Current/voltage characteristics with dependence on irradiance and module temperature.

Dealer Stamp



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BenQ
Solar

MXZ-D/C Inverter Heat Pump (5.3-12.2kW) Multi-Split Units

MULTI-SPLIT - INDOOR UNITS	WALL MOUNTED	FLOOR MOUNTED	DUCTED	CEILING CASSETTE	CEILING DUCTED
MXZ-2D53VA	MSZ-SF20/25/35VE / MSZ-FH25/35VE MSZ-EF25/35/50VE2B/S/W	MFZ-KJ25/35VE	SEZ-KD25/35VAQ ³	SLZ-KA25/35VAQ	-
MXZ-3D54VA2	MSZ-SF20/25/35/50VE / MSZ-FH25/35VE MSZ-EF25/35/50VE2B/S/W	MFZ-KJ25/35/50VE	SEZ-KD25/35/50VAQ ³ PEAD-RP50JAQ ¹	SLZ-KA25/35/50VAQ PLA-RP50BA	PCA-RP50KAQ
MXZ-4D72VA	MSZ-SF20/25/35/50VE / MSZ-FH25/35VE MSZ-EF25/35/50VE2B/S/W	MFZ-KJ25/35/50VE	SEZ-KD25/35/50/60VAQ ³ PEAD-RP50JAQ ¹	SLZ-KA25/35/50VAQ PLA-RP50/60BA	PCA-RP50/60KAQ
MXZ-4D83VA	MSZ-SF20/25/35/50VE / MSZ-FH25/35VE MSZ-EF25/35/50VE2B/S/W	MFZ-KJ25/35/50VE	SEZ-KD25/35/50/60/71VAQ ³ PEAD-RP50/60/71JAQ ¹	SLZ-KA25/35/50VAQ PLA-RP50/60/71BA	PCA-RP50/60/71KAQ
MXZ-5D102VA	MSZ-SF20/25/35/50VE / MSZ-FH25/35VE MSZ-EF25/35/50VE2B/S/W	MFZ-KJ25/35/50VE	SEZ-KD25/35/50/60/71VAQ ³ PEAD-RP50/60/71JAQ ¹	SLZ-KA25/35/50VAQ PLA-RP50/60/71BA	PCA-RP50/60/71KAQ
MXZ-6C122VA	MSZ-SF20/25/35/50VE / MSZ-FH25/35VE MSZ-EF25/35/50VE2B/S/W	MFZ-KJ25/35/50VE	SEZ-KD25/35/50/60/71VAQ ³ PEAD-RP50/60/71JAQ ¹	SLZ-KA25/35/50VAQ PLA-RP50/60/71BA	PCA-RP50/60/71KAQ

MXZ-D/C - OUTDOOR UNITS	MXZ-2D53VA	MXZ-3D54VA2	MXZ-4D72VA	MXZ-4D83VA	MXZ-5D102VA	MXZ-6C122VA
NUMBER OF CONNECTABLE INDOOR UNITS	2	2 - 3	2 - 4	2 - 4	2 - 5	2 - 6
CAPACITY (kW)						
Heating (nominal)	6.4 (1.0-7.0)	7.0 (2.6-9.0)	8.6 (3.4-10.7)	9.4 (3.4-11.6)	10.5 (4.1-14.0)	14.0 (3.5-16.5)
Cooling (nominal)	5.3 (1.1-5.6)	5.4 (2.9-6.8)	7.1 (3.7-8.8)	8.3 (3.7-9.2)	10.2 (3.9-11.0)	12.2 (3.5-13.5)
Heating (UK)	5.3 (0.83-5.81)	5.8 (2.16-7.47)	7.1 (2.82-8.89)	7.8 (2.82-9.63)	8.7 (3.40-11.63)	11.6 (2.90-13.71)
Cooling (UK)	5.2 (1.09-5.55)	5.3 (2.87-6.74)	7.0 (3.67-8.72)	8.2 (3.67-9.12)	10.1 (3.86-10.90)	12.1 (3.47-13.39)
COP / EER (nominal) ²	3.76 / 3.44	4.40 / 4.00	3.77 / 3.20	3.72 / 2.93	3.62 / 2.61	3.67 / 3.01
SCOP / SEER (ISEN14825)	4.2 / 7.1	4.0 / 6.4	3.9 / 5.7	3.9 / 5.2	3.8 / 5.3	- / -
EP ENERGY EFFICIENCY CLASS	Heating/Cooling A+ / A++	A+ / A++	A+ / A+	A / A	A / A	N/A
MAX AIRFLOW (m ³ /min)	33.3 / 32.9	43.0 / 42.1	43.0 / 42.1	43.8 / 42.1	59.3 / 56.6	69.9 / 59.5
SOUND PRESSURE LEVEL (dBA)	Heating/Cooling - SI-HI 53 / 50	53 / 50	53 / 50	50 / 49	55 / 53	57 / 55
SOUND POWER LEVEL (dBA)	Cooling 64	64	64	64	68	69
DIMENSIONS (mm)	Width x Depth x Height 800 x 285 x 550	840 x 330 x 710	840 x 330 x 710	900 x 320 x 915	900 x 320 x 915	900 x 320 x 1070
WEIGHT (kg)	37	57	58	69	70	87
ELECTRICAL SUPPLY	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz	220-240v, 50Hz
PHASE	Single	Single	Single	Single	Single	Single
POWER INPUT (kW)	Heating/Cooling (nominal) 1.70 / 1.54	1.59 / 1.35	2.28 / 2.25	2.42 / 2.83	2.90 / 3.91	3.81 / 4.05
	Heating/Cooling (UK) 1.54 / 1.23	1.44 / 1.08	2.07 / 1.80	2.20 / 2.26	2.63 / 3.12	3.46 / 3.21
STARTING CURRENT (A)	7.6	7.0	10.0	12.4	17.2	18.0
RUNNING CURRENT (A)	Heating/Cooling [MAX] 7.6 / 6.9 [12.2]	7.0 / 6.1 [18]	10.0 / 9.9 [18]	10.6 / 12.4 [20.4]	12.7 / 17.2 [21.4]	16.7 / 17.8 [30]
INTERCONNECTING CABLE No. CORES	4 Core	4 Core	4 Core	4 Core	4 Core	4 Core
TOTAL PIPE LENGTH (m)	30	50	60	70	80	80
MAX PIPE LENGTH PER INDOOR UNIT (m)	20	25	25	25	25	25
MAX HEIGHT DIFFERENCE (m)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)	15 (10 if OU higher than IU)
CHARGE R410A (kg) (Precharged Length)	1.30 [20m]	2.70 [40m]	2.70 [40m]	3.50 [40m]	4.0 [40m]	4.8 [60m]
FUSE RATING (BS88) - HRC (A)	15	25	25	25	25	32
OUTDOOR PRICE	£823	£991	£1,468	£1,784	£1,996	£2,601



Notes:
¹ Combined max running current of all indoors on system must not exceed 5A if PEAD-RP is used.
² System COP / EER when connected to MSZ-EF x indoor unit connections.
³ The SEZ-KD25VAQ cannot be used when the total indoor capacity is equal to the outdoor capacity, i.e. when the capacity ratio is 1.

Multi Split models with eight ports 14 and 15.5 kW can now be found in Y Series (4.5-8hp) City Multi section.