



BACK CONTACT

FU 340 / 345 / 350 M ZEBRA - All Black
Monocrystalline Photovoltaic Module - 120 half-cut IBC cells



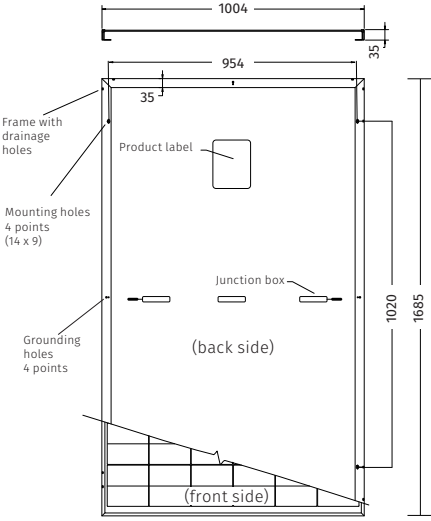
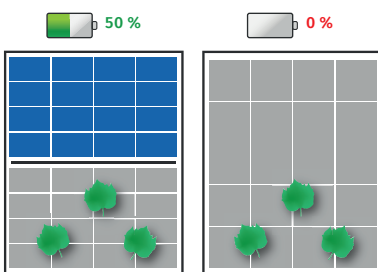
GENERAL FEATURES

- **IBC - Interdigitated Back Contact cells**
- Innovative **Zebra technology developed in Europe**
- **Superior module efficiency up to 20.69%**
- **Total black look** without ribbons on the cells
- **Excellent temperature coefficient -0.3%/°C**
- **Immunity to LID** (Light Induced Degradation) and **LeTID** (Light and elevated Temperature Induced Degradation)
- **Improved low light performance**
- **Better yield with various tilts**
- **No shading on the cell** thanks to **IBC technology**
- **2 independent section** design secures a higher energy yield in case of shading and **minimize the need of optimizers**

CERTIFICATIONS

- > **IEC 61215:2016 - IEC 61730:2016 & Factory Inspection**
- > **Fire Resistance - Class C**
- > **Salt Corrosion Resistance IEC 61701**

NEW



Note: dimensions in mm tolerance +/- 2 mm

GUARANTEES

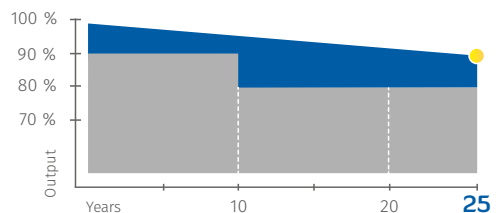
Product guarantee

25 YEARS

Performance guarantee

Max power decrease **0.4%/year**
1st year degradation - 1.0%
 99% at the end of first year
89% at the end of 25th year

Market standard performances
 FuturaSun performances



ELECTRICAL DATA

MODULE ZEBRA		FU 340 M ZEBRA	FU 345 M ZEBRA	FU 350 M ZEBRA
<i>Standard Test Conditions STC: 1000 W/m² - AM 1.5 - 25 °C - tolerance: Pmax (±3%), Voc (±4%), Isc (±5%)</i>				
Module power (Pmax)	W	340	345	350
Open circuit voltage (Voc)	V	41.90	42.10	42.20
Short circuit current (Isc)	A	10.19	10.24	10.29
Maximum power voltage (Vmpp)	V	34.11	34.31	34.51
Maximum power current (Impp)	A	9.97	10.06	10.14
Module efficiency	%	20.10	20.40	20.69

Nominal Module Operating Temperature NMOT: 800 W/m² - T=42 °C - AM 1.5

Module power (Pmax)	W	256	260	264
Open circuit voltage (Voc)	V	39.75	39.93	40.11
Short circuit current (Isc)	A	8.23	8.27	8.32
Maximum power voltage (Vmpp)	V	32.04	32.23	32.42
Maximum power current (Impp)	A	7.99	8.07	8.15

TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.046
Temperature coefficient Voc	%/°C	-0.246
Temperature coefficient Pmax	%/°C	-0.300
NMOT *	°C	42 ± 2
Operating temperature	°C	from -40 to +85

*Nominal Module Operating Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1685 x 1004 x 35 mm
Weight	19.5 kg
Glass	High transmission, Low iron, Tempered, ARC, Transparent, 3.2 mm
Cell encapsulation	POE (Polyolefin)
Cells	120 monocrystalline half-cut IBC cells 158.75 x 79.375 mm
Backsheet	Composite multilayer film
Frame	Black anodized aluminium frame with mounting and drainage holes
Junction box	Certified according to IEC 62790, IP 68 approved
Cables	Solar cable, length 300 mm or customized assembled with MC4-compatible plugs
Maximum reverse current (Ir)	20 A
Maximum system voltage	1500 V (1000 V on request)
Maximum load	Snow: 5400 Pa / Wind: 3600 Pa
Protection Class	II - accordance to IEC 61730

Authorized Dealer



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