



Your Energy Solutions

BI-FACIAL SERIES

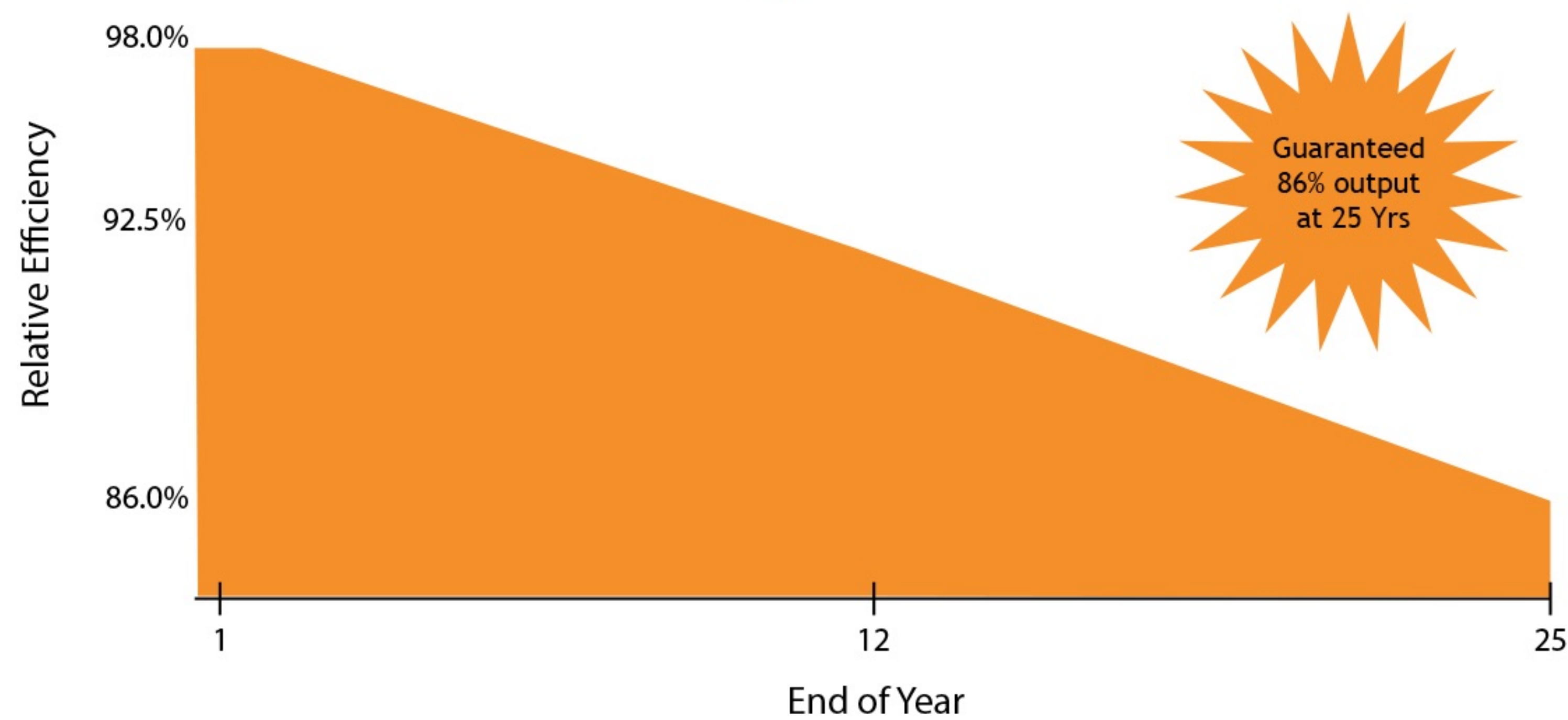
YES- BF405W-BLK Product Specifications

(888) 888-0711

yourenergysolutions.com

WARRANTY

- ✓ 25 Year Product Warranty
- ✓ 25 Year Linear Power Warranty
- ✓ Only -0.5% Annual Degredtaion



APPLICATIONS

- Grid-tied, hybrid & Off-grid capable
- Bi-Facial (solar cells on top and bottom of glass deliver more energy against reflective roof and ground surfaces)
- CEC approved for residential, commercial and utility scale renewable energy projects



FEATURES



P Type/M10/PERC/10BB/Half-Cell



Lightweight design, ideal for residential roof-top



PID Resistant materials ensure decades of reliable performance



Strong mechanical load capacity



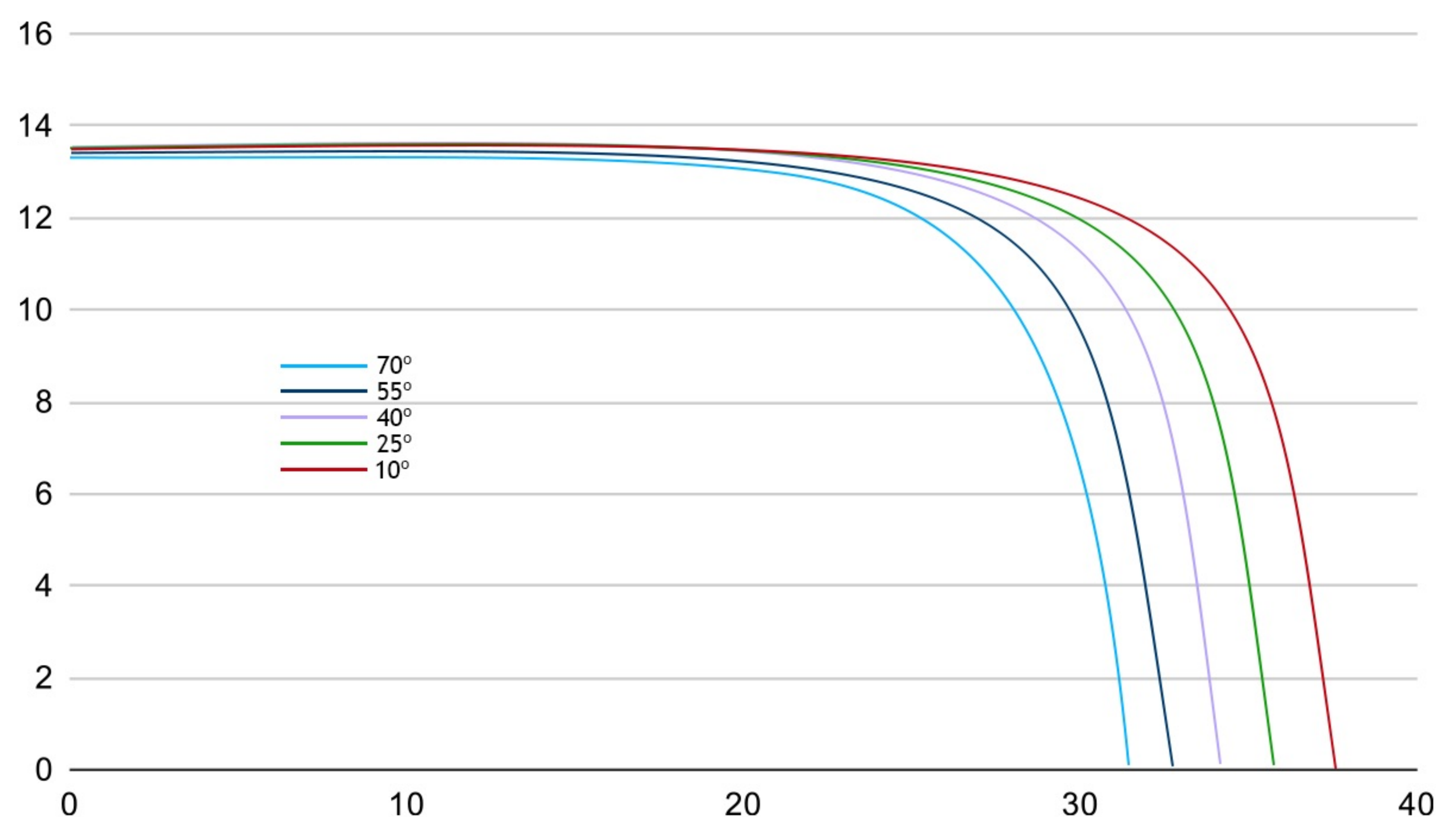
Better temperature coefficients come from half-cell design



Lower microrack problem loss compared to 5-busbar module

CURRENT-VOLTAGE CURVE

Current (A)



ELECTRICAL DATA

Power at STC	400W	405W	410W
Short Circuit Current - Isc (A)	13.55	13.59	13.66
Maximum Power Current - Impp (A)	12.92	12.96	13.01
Open Circuit Voltage - Voc (V)	37.15	37.34	37.55
Maximum Power Voltage - Vmpp (V)	31.00	31.27	31.52
Module Efficiency - n' (%)	20.5%	20.8%	21.0%

GENERAL DATA

Characteristics	Value
Module Dimensions (mm)	1721±1 x 1133±1 x 30
Module Weight (kg)	20.5±1kg
Packaging	Value
Modules per Pallet	37
40 Ft High Cube Container	962 Modules
Mechanical Load**	Value
Max Static Load (front) *	5400 Pa
Max Static Load (back) *	5400 Pa
Dynamic Load *	1000 Pa

MATERIAL DATA

Characteristics	Value
Cells per Module	108 (54 x 2)
Cell Type	Grade A - Mono PERC Crystalline Silicon 10 BB 7.2in. x 3.6in.
Front Surface	3.2mm Tempered AR Coated Glass
Encapsulant	PID Free EVA
Back Cover	Transparent Backsheet
Frame	Anodized Aluminum (Black)
Junction Box	IP68, 3 Bypass Diodes
Cable Length	Cables Length could be 11.8in., or 47.2in. with original MC4 connector
Fire Classification	Type 1

TEMPERATURE RATINGS

Characteristics	Value
Open Voltage Temperature Coefficient VOC (%/C°)	-0.22
Short Circuit Current Temperature Coefficient ISC (%/C°)	+0.05
Power Temperature Coefficient PMP (%/C°)	-0.35
NOCT (C°)	45±2

MAXIMUM RATINGS

Characteristics	Value
Maximum System Voltage - Vmax (V)	1500
Maximim Series Fuse (A)	25
Operating Temperature Range (°C)	IEC: -40 to +85 UL: -40 to +90

CERTIFICATIONS

IEC 62782:2016
IEC TS 62804
IEC 60068
IEC62716
IEC 61701
UL 61215 / UL 61730
IEC 61215 / IEC 61730
EN ISO 9001: 2015
EN ISO 14001: 2015



Power measuring tolerance: ±3%, other measurements tolerances: ±5%

*Caution: For professional use only, the installation and handling of PV modules and cleaning modules require professional skills and should only be performed by qualified professionals, please read the Installation and Operation Manual and Cleaning Guidelines before using the modules.

**Specifications subject to change without notice.

