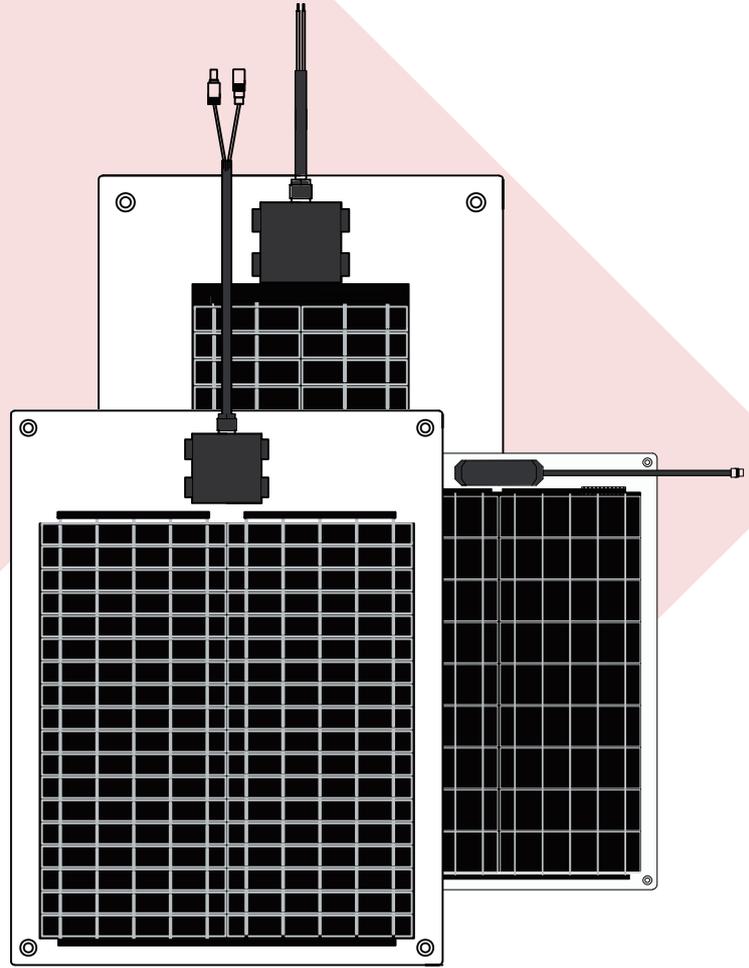## MicroFit Series

10-50W

Made-to-Order PV Module

Light Weight
Frameless, Glass free

Flexibility
Special manufacturing process and materials provide bending ability

Aesthetic Apperance
Shingling Tech., High Consistency

Easy Installation
Lignt weight, easy for handling

Customized
Provide Customized Service

TUV SUD | CE | ISO 9001 | PV CYCLE | MCS

Linear Performance Warranty

linear power warranty

25 year — 25 Year Linear Power Warranty

10 year — 10 Year Product Warranty

100%
97%
90%
80.2%
80%

25   20   15   10   5   0

ELECTRICAL CHARACTERISTICS

STC	HMN-10-EWAS	HMN-20-EWAS	HMN-50-EWAS
Maximum Power (Pmax)	10W	20W	50W
Maximum Power Voltage(Vmp)	17.5V	17.5V	20.3V
Maximum Power Current(Imp)	0.57A	1.23A	2.47A
Open-circuit Voltage(Voc)	33V	21.6V	24.3V
Short-circuit Current(Isc)	0.62A	1.14A	2.75A
Module Efficiency(%)	19.29%	19.29%	19.29%
Operating Temperature	-40 ℃ to 85 ℃		
Maximum System Voltage	600VDC		
Maximum Series Fuse Rating	15A		
Applic ation Class	Class A		
P ower Toleran ce	0~5 W		

S T C : I r r a d i a n c e 1 0 0 0 W / m ² , m o d u l e t e m p e r a t u r e 2 5 ℃ , A M = 1 . 5

MECHANICAL CHARACTERISTICS

Solar Cell	HMN-10-EWAS	HMN-20-EWAS	HMN-50-EWAS
No. of cells	Monocrystalline sillicon cell		
Module Dimensions	36（18*2）	36（18*2）	36(9*4)
Weight	L:481*W:301*H:4mm	L:481*W:373*H:4mm	L:508*W:683*H:4mm
Front Glass	0.6kg	0.7kg	1.3kg
Backsheet	White PV Backsheet		
J-Box	IP67		
Output cables	1.5～4mm²		
Cable length	（＋）（—）500mm cable length can be customized		
Connector	MC4 compatible		

Packaging

module type/s	HMN-10-EWAS	HMN-20-EWAS	HMN-50-EWAS
Pieces per pallet	72	72	88
Container	20'GP	20'GP	20'GP
Pieces per container	1440	1440	704
Container	40'GP	40'GP	40'GP
Pieces per container	3168	3168	1408

I-V CURVE

HMN-10-EWAS

HMN-20-EWAS

HMN-50-EWAS
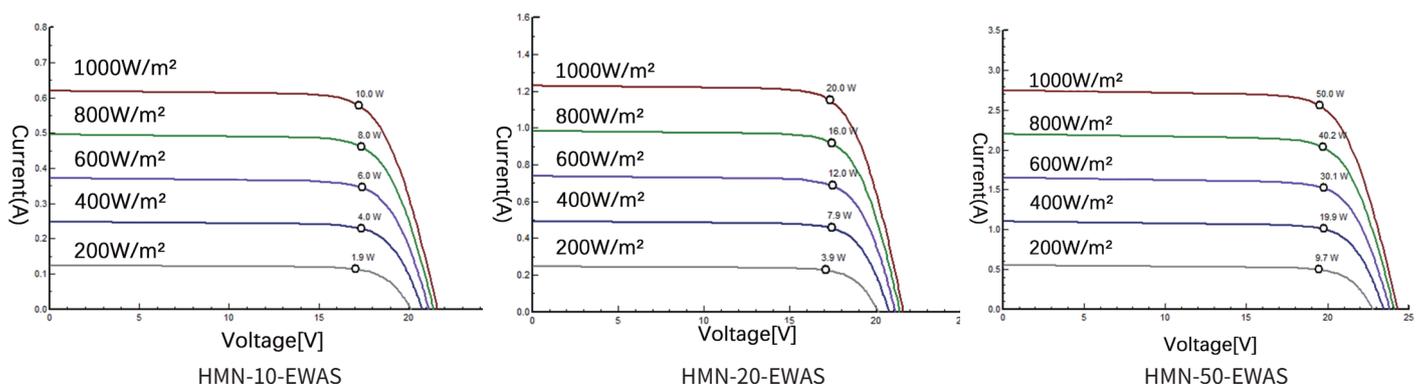
TEMPERATURE CHARACTERISTICS

NOCT(Nominal Operating Cell Temperature)	41 ± 2℃
Temperature Coefficient of Pmax	-0.38%/℃
Temperature Coefficient of Voc	-0.28%/℃
Temperature Coefficient of Isc	0.020%/℃

SUNPLUS ENERGY

http://sunplus-jp.com   info@sunplus-jp.com

サンプラスエナジー株式会社　SUNPLUS ENERGY Co .,Ltd.