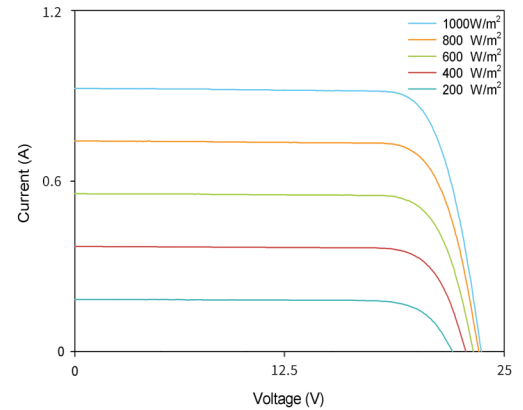


# OMNIA SERIES MONO 20 WATT

ELECTRICAL PARAMETERS			STC
Power Output	$P_{max}$	W	20
Power Output Tolerances	$\Delta P_{max}$	%	-5%~+10%
Voltage at Pmax	$V_{mpp}$	V	18.08
Current at Pmax	$I_{mpp}$	A	1.11
Open-Circuit Voltage	$V_{oc}$	V	21.28
Short Circuit Current	$I_{sc}$	A	1.18
Max System	$V_{sys}$	V	60

STC : 1000W/m<sup>2</sup>, 25°C, 1.5AM



## Temperature Characteristics

Nominal Operating Cell Temperature	NOCT	°C	45 ± 2 °C
Temperature Coefficient of Pmax	$\gamma$	%/°C	-0.45
Temperature Coefficient of Voc	$\beta_{voc}$	%/°C	-0.33
Temperature Coefficient of Isc	$\alpha_{isc}$	%/°C	+0.039
Temperature Coefficient of Vmpp	$\beta_{vmpp}$	%/°C	-0.33

## Mechanical Characteristics

Cell Type	Mono Crystalline Silicon
Module Dimension (mm)	L348 x W367 x H17
Module Weight	1.60 kg
Front Layer	3.2 mm Tempered Glass
Encapsulant	Ethylene-Vinyl Acetate
Frame	Anodized Alluminum Alloy, Silver Color, 17 mm
Junction Box	IP 64
Cable	20 AWG
Back Layer	PV Backsheet, White

## Packaging

Quantity per Pallet	360
Pallet Dimension (mm)	L1,137 x W1,062 x H860
Net Weight per Pallet	576 kg
Gross Weight per Pallet	626 kg
Quantity in 20" CNTR	7,200

## Warranty

Certification	ISO 9001, ISO 14000, ISO 45001 TUV, CE, RoHS, REACH
Product	5 years

### OPES Solutions GmbH

A: Chausseestr. 22, 10115 Berlin, Germany  
P: + 49 (0) 30-284 237 80  
E: sales@opes-solutions.com

### OPES Solutions (Changzhou) Co., Ltd. - Factory

A: Building B1, Hutang Science and Technology  
Industrial Park, Wujin District, Changzhou 213000, Jiangsu, China  
P: + 86 519 8188 9808  
E: info@opes-solutions.com

www.opes-solutions.com

