

# ODA-144MH

Mono half-cut module



New circuit design,  
lower internal current and  
lower internal resistance loss



The unique circuit design to  
reduce the temperature  
of heat spot significantly, so that to  
reduce the power loss  
and then increase the output of modules.



Increasing power generation can  
reduce the cost per kilowatt-hour

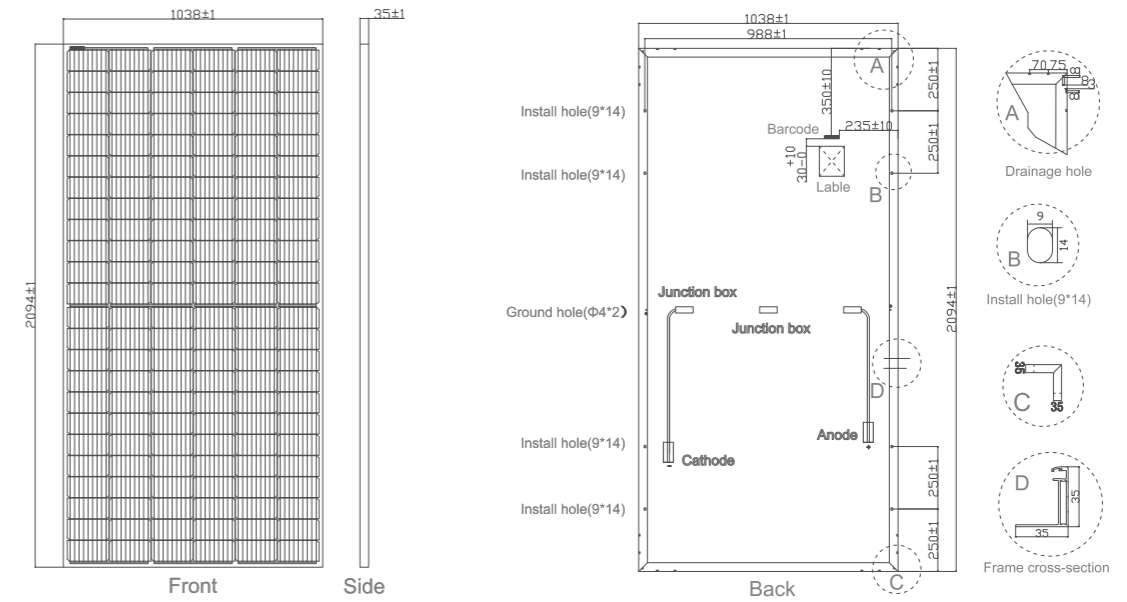


Industry standard anti-PID (potential  
induced decay) by TUV  
North Germany



## 440-460W

166\*83mm



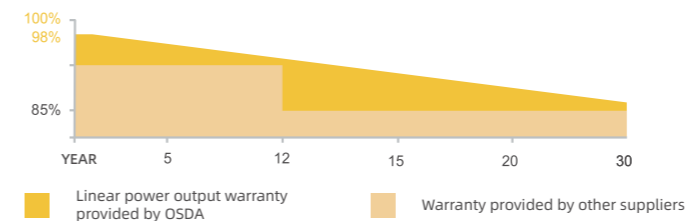
### SPECIFICATIONS

Item No.	ODA440-36V-MH	ODA445-36V-MH	ODA450-36V-MH	ODA455-36V-MH	ODA460-36V-MH
Nominal peak power (W)	440.00	445.00	450.00	455.00	460.00
Voltage at nominal peak power (V)	41.10	41.30	41.50	41.70	41.90
Current at nominal peak power (A)	10.71	10.78	10.85	10.92	10.99
Open-circuit voltage(V)	48.90±3%	49.10±3%	49.30±3%	49.50±3%	49.70±3%
Short-circuit current(A)	11.46±3%	11.53±3%	11.60±3%	11.66±3%	11.72±3%
Module efficiency(%)	20.24	20.47	20.70	20.93	21.16
Power tolerance			0~+3%		
Pmax temperature coefficient			-0.350%		
Voc Temperature Coefficient			-0.270%		
Isc Temperature Coefficient			+0.048%		
NOCT Nominal Operating Cell Temperature			47±2		
Operating and Storage Temperature			-40~+85		
Standard test condition(STC)			1000W/m <sup>2</sup> , AM1.5;25+/-2°C		

### MECHANICAL CHARACTERISTICS AND PACKING

Solar cell type	166*83 (Mono/Black Mono)
No. of cells	144 (12*12)
Dimension(mm)	2094*1038*35
Weight	23.50
Front glass(mm)	3.2mm high transmission, low iron, tempered glass
Frame	Silver/Black anodized aluminium profile
Maximum system voltage	1500
Maximum Series Fuse Rating Current (A)	20
Junction box	IP67 /IP68 3diodes
Output cable	4mm² cable*55cm (Including MC4 connector)
Max wind load/snow load	2400Pa/5400Pa
20GP container	5 Packages/155pcs
40HQ container	22 Packages/726pcs

### Warranty



**12 YEAR** 12 years warranty on product material and workmanship

**30 YEAR** 30 years warranty on linear power output