

MECHANICAL SPECIFICATION		MECHANICAL DRAWINGS
Cell Type	Poly crystalline 156x156mm(6 inches)	<p>Front View Dimensions: B=992mm, C=40mm, F=954mm, A=1600mm</p> <p>Rear View Dimensions: G=950mm, H=950mm, I=1600mm, J=1600mm</p> <p>Labels: Junction Box, Nanoplate, 2# Mounting Hole, 6-Ø34 Installing Hole, 4-Ø33 Drain Hole</p>
Number of cells	60(6x10)	
Dimensions(AxBxC)	1640x992x35mm	
Weights	18.6kg	
Front Glass	3.2 mm Low iron tempered glass	
Frame	Anodized aluminum	
Junction Box	IP 65, with bypass diodes	
Connector	Mc4 compatible	
Output Cables	TÜV, length 900mm, 4.0mm ²	

ELECTRICAL CHARACTERISTICS

PERFORMANCE AT STANDARD TEST CONDITION(STC:1000W/m², 25°C, AM1.5)

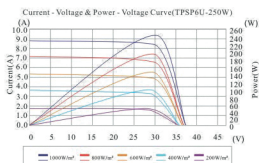
Module Series	TPSP6U-Topray Universal				
Maximum Power at STC(P _{max})	240W	245W	250W	255W	260W
Short Circuit Current(I _{sc})	8.62A	8.69A	8.80A	8.82A	8.91A
Open Circuit Voltage(V _{oc})	36.90V	37.10V	37.20V	37.50V	37.73V
Maximum Power Current(I _{mp})	8.06A	8.14A	8.26A	8.36A	8.45A
Maximum Power Voltage(V _{mp})	29.80V	30.10V	30.30V	30.50V	30.77V
Encapsulated Cell Efficiency	16.94%	17.30%	17.65%	18.00%	18.36%
Module Efficiency	14.756%	15.06%	15.37%	15.70%	16.00%
Power Tolerance	0/+5%	0/+5%	0/+5%	0/+5%	0/+5%

PERFORMANCE AT NORMAL OPERATING CELL TEMPERATURE(NOTE:800W/m², 47±3°C, AM1.5)

Maximum Power(P _{max})	176W	179W	183W	185W	187W
Short Circuit Current(I _{sc})	7.27A	7.33A	7.42A	7.51A	7.60A
Open Circuit Voltage(V _{oc})	34.20V	34.40V	34.50V	34.50V	34.50V
Maximum Power Current(I _{mp})	6.62A	6.69A	6.79A	6.82A	6.86A
Maximum Power Voltage(V _{mp})	26.50V	26.80V	27.00V	27.32V	27.68V

The typical relative change in module efficiency at an irradiance of 200W/m² in relation to 1000W/m² (both at 25°C and AM 1.5 spectrum) is less than 6%

TEMPERATURE CHARACTERISTICS		PACKING CONFIGURATION		
Nominal Operating Cel Temperature(NOCT)	47±3°C	Container	20'GP	40'HQ
Temperature Coefficient of P _{max} (γ)	-0.44%/K	Pieces per pallet	28	28
Temperature Coefficient of V _{oc} (β)	-0.36%/K	Pallets per container	6	28
Temperature Coefficient of I _{sc} (α)	0.05%/K	Pieces per container	336	784



SYSTEM INTEGRATION PARAMETERS

Maximum system voltage	DC 1000V
Maximum Series Fuse	16A
Maximum reverse current	21.5A
Increased snowload acc. to IEC 61215	5400Pa
Operating Temperature	-40~+85°C
Number of bypass diodes	6