



POLYCRYSTALLINE SMALL AREA MODULE DATA SHEET

ELECTRICAL CHARACTERISTICS UNDER STC

Module Type	ESUN10P36	ESUN20P36	ESUN40P36	ESUN60P36	ESUN80P36	ESUN110P36	ESUN150P36
Maximum Power-P _{max} (Wp)	10	20	40	60	80	110	150
Voltage at Maximum Power-V _{mp} (V)	17.4	17.5	17.5	17.6	17.4	17.4	17.6
Current at Maximum Power -I _{mp} (A)	0.58	1.14	2.29	3.43	4.60	6.33	8.53
Open Circuit Voltage-V _{oc} (V)	22.4	22.4	22.4	22.6	22.4	22.4	22.6
Short Circuit Current - I _{sc} (A)	0.63	1.23	2.46	3.64	4.91	6.87	9.01
Module Efficiency - η_m (%)	11.43	12.16	11.71	14.21	12.98	14.66	15.23
Power Tolerance (W)	0/+3%						
Maximum System Voltage	715VDC						
Operating Temperature	-40°C ~+85°C						

MECHANICAL CHARACTERISTICS

Module Type	ESUN10P36	ESUN20P36	ESUN40P36	ESUN60P36	ESUN80P36	ESUN110P36	ESUN150P36
Number of Cells	36 (4 x 9)	36 (2 x 18)	36 (4 x 9)	36 (4 x 9)	36 (4 x 9)	36 (4 x 9)	36 (4 x 9)
Dimension (mm)	350x250x17	470x350x25	600x510x30	670x630x30	870x670x30	1120x670x35	1480x670x35
Weight (kg)	1.0	1.3	4.1	4.9	6.9	8.4	11.0
Tempered Glass (mm)	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Junction Box	IP65						
Cable	/						

TEMPERATURE CHARACTERISTICS

NOCT	45 ± 2°C
Temperature coefficient of P _{max}	-0-44%/°C
Temperature coefficient of V _{oc}	-0-34%/°C
Temperature coefficient of I _{sc}	-0-06%/°C

WARRANTY TERMS

5 year product warranty
10 year product warranty for 90% power output
25 year product warranty for 80% power output

STC (Standard Testing Conditions) : Irradiance 1000/m², Cell Temperature 25°C, AM 1.5
 NOCT (Normal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, AM 1.5, Wind Speed 1/s
 All specifications subject to change without notice