



440W **20.24 %**
Module efficiency

450W **20.70 %**
Module efficiency

Electrical Characteristics at Standard Test Conditions (STC)

Module Type	SPV440-PM6-144	SPV450-PM6-144
Maximum Power - Pmax (W)	440	450
Maximum Power Voltage - Vmp (V)	41.00	41.40
Maximum Power Current - Imp (A)	10.74	10.87
Open-circuit Voltage - Voc (V)	49.60	50.00
Short-circuit Current - Isc (A)	11.33	11.54
Module Efficiency STC (%)	20.24 %	20.70 %

Tolerance of Rating Pmax /Voc/ Isc[%]: ±5/ ±4/ ±4

Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

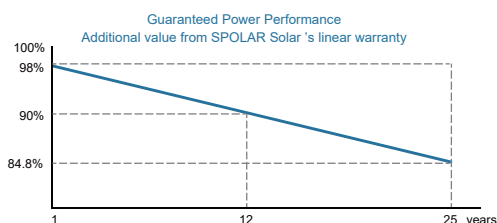
Module Type	SPV440-PM6-144	SPV450-PM6-144
Maximum Power - Pmax (W)	332	339
Maximum Power Voltage - Vmp (V)	38.61	39.01
Maximum Power Current - Imp (A)	8.58	8.69
Open-circuit Voltage - Voc (V)	46.69	47.11
Short-circuit Current - Isc (A)	9.05	9.22

Temperature & Maximum Ratings

Operating Temperature (°C)	-40 °C ~ +85 °C
Nominal Operating Cell Temperature	45 ± 2 °C
Temperature Coefficients of Pmax	-0.35% / °C
Temperature Coefficients of Voc	-0.275% / °C
Temperature Coefficients of Isc	0.045% / °C
Power Tolerance	0 ~ +3W
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	25 A

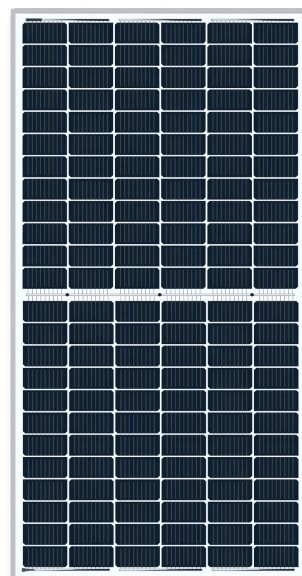
Mechanical Characteristics

Cell Type	Mono-crystalline
No. of Cells	144 (6x24)
Dimensions	2094x1038x30 mm
Weight	22.5 kg
Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, MC4 Compatible, 3 Bypass Diode Connector: Type PV-XT101.1[Xtong] or Type PV-KST4-EVO 2/xy UR(male) &PV-KBT4-EVO2/xy UR (female)[Stäubli]
Fire Rating	Class C
Safety Class	Class II
Packaging Configuration	1x4.0 mm ² , Length: 300 mm or Customized Length
Output Cables	77pcs/stack, 847pcs/40'HQContainer (Two pallets=One stack)



12
years
Product warranty

25
years
Linear power warranty



SPV440-PM6-144 SPV450-PM6-144



High Efficiency

Higher power conversion efficiency benefited from advanced SpolarPV technology.



Anti-reflection

Less than 20% reflectivity with minimum glare.



Good Mechanical Load

Certified to withstand: wind load (2400 Pa), snow load and hail strike(5400 Pa) .



Low Light Resilience

Advanced glass and cell surface texture designs ensure excellent performance in low light environment.



Environmental Durability

Good performance of Anti-PID & Salt mist certified by 2 PfG 2387/01.18 and IEC61701.

