

# 440W 20.33 % Module efficiency 20.79 % Module efficiency

Electrical Characteristics at Standard Test Conditions (STC)		
Module Type	SPV440-PM10-120	SPV450-PM10-120
Maximum Power - Pmax (W)	440	450
Maximum Power Voltage - Vmp (V)	34.61	35.12
Maximum Power Current - Imp (A)	12.72	12.82
Open-circuit Voltage - Voc (V)	41.35	41.98
Short-circuit Current - Isc (A)	13.47	13.57
Module Efficiency STC (%)	20.33 %	20.79 %

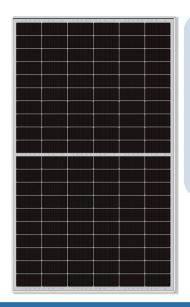
### Tolerance of Rating Pmax /Voc/ Isc[%]: +5/ +4/ +4

Electrical Characteristics at	Normal Operating Cell	Temperature (NOCT)
Module Type	SPV440-PM10-120	SPV450-PM10-120
Maximum Power - Pmax (W)	331	338
Maximum Power Voltage - Vmp (V)	32.62	33.01
Maximum Power Current - Imp (A)	10.17	10.24
Open-circuit Voltage - Voc (V)	38.82	39.21
Short-circuit Current - Isc (A)	10.76	10.85

Temperature & Maximum Ratings		
Operating Temperature (°ℂ)	-40 °C∼ +85 °C	
Nominal Operating Cell Temperature	45 ± 2 ℃	
Temperature Coefficients of Pmax	-0.35% / °C	
Temperature Coefficients of Voc	-0.275% / ℃	
Temperature Coefficients of Isc	<b>0.045%</b> / ℃	
Power Tolerance	$ m 0 \sim +3W$	
Maximum System Voltage	1500 V	
Maximum Series Fuse Rating	25 A	

Mechanical Characteristics		
Cell Type	Mono-crystalline	
No. of Cells	120 (6x20)	
Dimensions	1910x1133x30 mm	
Weight	23.5 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 <sup>2</sup> , Length: 300 mm or Customized Length	
Output Cables	72pcs/stack, 864pcs/40'HQContainer (Two pallets=One stack)	











## SPV440-PM10-120 SPV450-PM10-120



# **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).



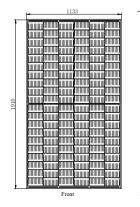
# **Low Light Resilience**

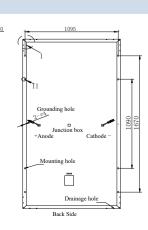
Advanced glass and cell surface texture designs ensure excellent performance in low light environment.



# **Environmental Durability**

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





Made in China Version: SPV202404A