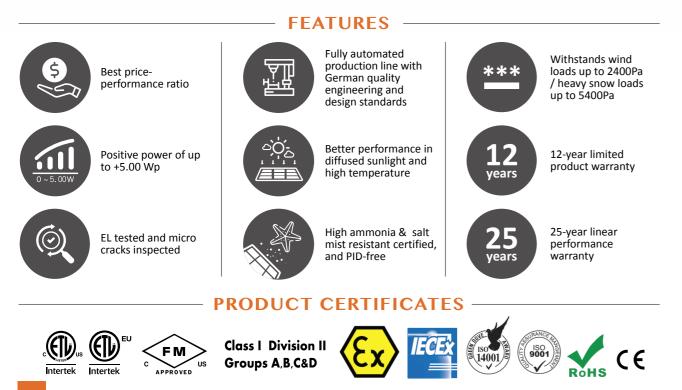




Quantumline Plus Perc Mono M6 144 Cells Solar Panel

GSM - 435W 440W 445W 450W 455W-H

GermanSolar is a specialist in customization, utilizing colored glass, frames, and back-sheet material and shapes to expertly match your ideas with the prospective application. With innovative technology and design, GermanSolar offers high-quality modules with enhanced aesthetic appearance for building structuresmand facades. By providing outstanding customization options, GermanSolar supports your required project needs with colored and shaped panels of your choice and advises you to choose the right size, thickness, shape, and color to compliment the design of your application and your building.



Quantumline Plus

Electrical Data				
Nominal Max. Power (Pmax)*	435W	440W	445W	450W
Open Circuit Voltage (Voc)	49.01	49.29	49.54	49.8
Short Circuit Current (Isc)	11.24	11.29	11.33	11.38
Max. Power Voltage (Vmpp)	40.76	41.06	41.33	41.6
Max. Power Current (Impp)	10.67	10.72	10.77	10.82
Module Efficiency (%)	19.69	19.92	20.14	20.37
Power Tolerance			0~+5W	
Temperature Coefficient (Pmax)			-0.35% / °C	
Temperature Coefficient (Isc)			+0.04% / °C	
Temperature Coefficient (Voc)			-0.25% / °C	

* STC: Irradiance 1000W/m, Cell Temperature 25°C, Air Mass AM1.5.

Electrical Data, NMOT *				
Nominal Max. Power (Pmax)	329W	333W	337W	341W
Open Circuit Voltage (Voc)	46.29	46.55	46.79	47.04
Short Circuit Current (Isc)	9.07	9.09	9.14	9.17
Max. Power Voltage (Vmpp)	38.44	38.77	39.02	39.27
Max. Power Current (Impp)	8.57	8.59	8.63	8.67
NMOT (Nominal Module Operating Temperature)			41°C ± 3°C	

NMOT: Irradiance at 800W/m, Ambient Temperature 20°C, Wind Speed 1m/s.

Mechanical Data			
Dimensions	2108x 1048x 30mm (83.00× 41.26× 1.18inches)		
Weight	27.0kg (59.52lb)		
Solar Cell	Perc monocrystalline M6		
Front glass	3.2mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass		
Frame	Anodized aluminium alloy, original or black		
Junction Box	IP68, 3 diodes		
Cable	4 mm² (IEC),12AWG (UL), 350mm		
Connector	MC4 or MC4 compatible		
Application Classification	Class A		
Module Fire Performance	Type 1 (UL 1703) or Class C (IEC 61730)		

Operating Conditions					
Max. System Voltage	1500V (IEC/UL) or 1000V (IEC/UL)				
Operating Temperature	-40°C~ +85°C				
Max. Series Fuse Rating	25A				
Front Side Maximum Static Loading/ Rear Side Maximum Static Loading	5400 Pa/2400 Pa				
Packaging					
Standard packaging	35pcs /pallet				
Module quantity per 20' container	350pcs				

770pcs /40' HQ containe

tity per 40' contain

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