

Module efficiency  
**22.01 %**

Highest power output  
**430 W**



Product warranty



Linear power warranty

# SPV430-TM10-108BD

## Electrical Characteristics at Standard Test Conditions (STC)

Module Type	SPV425-TM10-108BD	SPV430-TM10-108BD
Maximum Power - Pmax (W)	425	430
Maximum Power Voltage - Vmp (V)	32.26	32.44
Maximum Power Current - Imp (A)	13.18	13.25
Open-circuit Voltage - Voc (V)	38.08	38.26
Short-circuit Current - Isc (A)	14.10	14.17
Module Efficiency STC (%)	21.76 %	22.01 %

## Mechanical Characteristics

Cell Type	Mono-crystalline TOPCon 182x91 mm
No. of Cells	108 (6x18)
Dimensions	1724x1133x30 mm
Weight	23.5 kg
Glass	Dual Glass 2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, MC4 Compatible, 3 Bypass Diode
Output Cables	1x4.0 mm <sup>2</sup> , Length: 300 mm or Customized Length
Packaging Configuration	74pcs/stack, 962pcs/40'HQContainer ( Two pallets=One stack )



## High Efficiency and Lower Temperature Coefficient

Higher power conversion efficiency and lower temperature coefficient benefited from advanced Tunnel Oxide Passivating Contacts (TOPCon) technology.



## Anti-reflection

Less than 20% reflectivity with minimum glare.



## Good Mechanical Load Performance

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



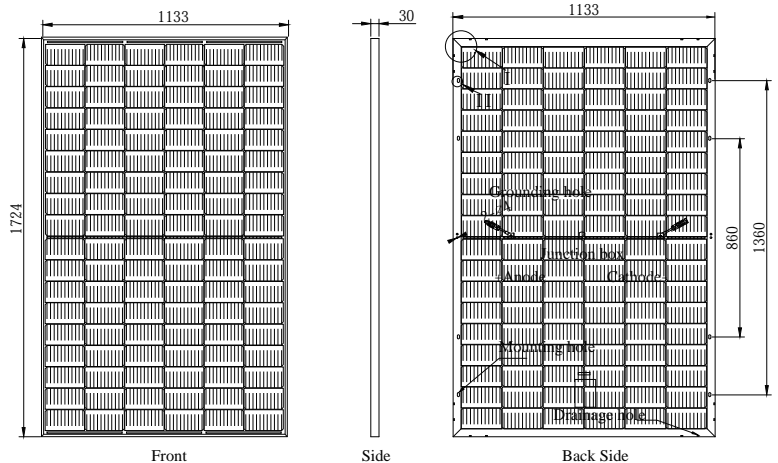
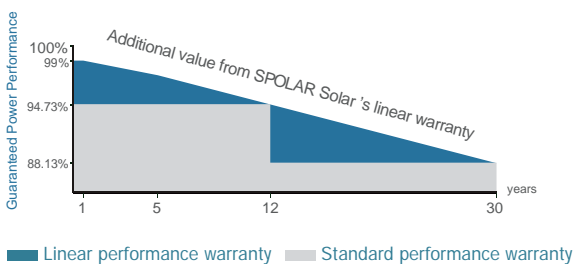
## Low Light Performance Resilience

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



## Durability Against Extreme Environmental Conditions

Good performance of Anti-PID, Ammonia and Salt mist certified by 2 PFG 2387/01.18, IEC61716 and IEC61701.



# Microinverter

SUN-M60/80/100G4-EU-Q0



- ✓ 2 MPP tracker, module level monitoring
- ✓ IP67 protection degree
- ✓ WIFI communication
- ✓ Rapid shutdown function
- ✓ Easy installation, suitable for quick-plug balcony PV system
- ✓  $\leq 100\text{ms}$  AC fast discharge, compliant with new required standard DIN VDE 0620-1 ( $\leq 200\text{ms}$ ) to protect human safety
- ✓ Complete NS protection with self-check function
- ✓ External relay advantage with low temperature, long life, easier maintenance
- ✓ 25 years design lifetime and 15 years warranty
- ✓ With integrate WIFI

## Technical Data

Model	SUN-M60G4-EU-Q0	SUN-M80 G4-EU-Q0	SUN-M100 G4-EU-Q0
<b>PV String Input Data</b>			
Max. PV Input Power (W)	210-420(2 Pieces)	210-560(2 Pieces)	210-700(2 Pieces)
Max. PV Input Voltage (V)	60		
Start-up Voltage (V)	20		
MPPT Voltage Range (V)	25-55		
Rated PV Input Voltage (V)	42.5		
Max. Operating PV Input Current (A)	13+13		
Max. Input Short Circuit Current (A)	19.5+19.5		
No. of MPPT Trackers/ No. of Strings per MPPT	2/1		
<b>AC Output Data</b>			
Rated AC Output Active Power(W)	600	800	1000
Max.AC Output Apparent Power(VA)	600	800	1000
Rated AC Output current (A)	2.8/2.7	3.7/3.5	4.6/4.4
Max.AC Output Current(A)	2.8/2.7	3.7/3.5	4.6/4.4
Rated Output voltage/range (V)	220/230 0.85Un-1.1Un		
Grid Connection Form	L/N/PE		
Rated Output Grid Frequency/range(Hz)	50/45-55, 60/55-65		
Max. unit per branch	8	6	5
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
<b>Efficiency</b>			
Max. Efficiency	96.5%		
Euro Efficiency	96.0%		
MPPT Efficiency	>99		
<b>Equipment Protection</b>			
DC Polarity Reverse Connection Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
DC Terminal Insulation Impedance	Yes		
Monitoring Power Network Monitoring	Yes		
Island Protection Monitoring	Yes		
Earth Fault Detection	Yes		
Overvoltage Load Drop Protection	Yes		
<b>Interface</b>			
Communication Interface	WiFi		
<b>General Data</b>			
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	2000m		
Noise (dB)	≤25 dB		
Ingress Protection(IP) Rating	IP 67		
Inverter Topology	Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	280.5×190×40 (Excluding Connectors and Brackets)		
Weight (kg)	3		
Warranty	15 Years		
Type of Cooling	Natural Cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		