

**NEW**

**POLYCAB**

IDEAS. CONNECTED.

## EXCLUSIVE FOR RESIDENTIAL SMALL ROOFTOP SOLAR PROJECTS

### Single Phase

PSIS2K0SM1R2, PSIS3K0SM1R2,  
PSIS3K6SM1R2, PSIS4K0SM1R2,  
PSIS4K6SM1R2, PSIS5K0SM1R2,  
PSIS5K5SM1R2, PSIS6K0SM1R2



### LEADING FEATURES



#### Superior Efficiency

Maximum efficiency 97.3%  
String Current 20A.  
Compatible with High Power TOPCon Modules.

#### High Reliability

IP65 waterproof and dustproof, C5 anti corrosion  
DC / AC Inbuilt surge protections.  
Compatible with wide power grid voltage and high harmonic power grid environment

#### Intelligent Maintenance

App quick commissioning  
Remote configuration and upgrade

## Single Phase

2 kW | 3 kW | 3.6 kW | 4 kW | 4.6 kW | 5 kW | 5.5 kW | 6 kW

### TECHNICAL SPECIFICATIONS

MODEL	PSIS2K0 SMIR2	PSIS3K0 SMIR2	PSIS3K6 SMIR2	PSIS4K0 SMIR2	PSIS4K6 SMIR2	PSIS5K0 SMIR2	PSIS5K5 SMIR2	PSIS6K0 SMIR2
RATING	2 kW	3 kW	3.6 kW	4 kW	4.6 kW	5 kW	5.5 kW	6 kW
<b>INPUT (PV)</b>								
Max. Usable Power	150%							
Max. DC Voltage	500			600				
MPPT Range	50-490			70-550				
MPPT Range(Full load)	110-430	160-430	190-430	210-500	240-500	260-500	290-500	320-500
Nominal Input Voltage	360							
Max. DC Current	20			20				
Max. Short Circuit Current	30			30				
MPP Tracker No.	1			1				
String No.	1			1				
<b>OUTPUT (GRID)</b>								
Nom. Power (Output)	2,000 W	3,000 W	3,600 W	4,000 W	4,600 W	5,000 W	5,500 W	6,000 W
Maximum Power (Output)	2,200 VA	3,300 VA	3,600 VA	4,400 VA	5,060 VA	5,500 VA	6,000 VA	6,000 VA
Apparent Power (Output)	2,200 W	3,300 W	3,600 W	4,400 W	5,060 W	5,500 W	6,000 W	6,000 W
Nominal Voltage	220 V / 230 V / 240 V							
Rated grid frequency	50 Hz / 60 Hz							
Maximum Current (Output)	10.0 A	15.0 A	16.0 A	20.0 A	23.0 A	25.0 A	27.3 A	27.3 A
Power Factor Adjustment Range	0.8 leading to 0.8 lagging							
THD	<3% (Rated Power)							
<b>EFFICIENCY</b>								
Max. Efficiency(PV to Grid)	97.3%			97.2%				
Eur. Efficiency(PV to Grid)	95.9%	95.9%	96.3%	96.0%		96.2%	96.4%	96.4%
<b>GENERAL</b>								
Temp. Range	-25°~60°							
Max. operation altitude	4000m							
Topology	Transformerless							
Protection	IP65							
Noise emission	30 dB							
Humidity	0-100%							
Cooling	Natural convection							
<b>HMI &amp; COM</b>								
Display	LED+LCD, APP							
Communication interface	RS485/RS232, WiFi/LAN (Optional)							
<b>PROTECTION</b>								
Anti-islanding protection	YES							
AC over-current protection	YES							
AC short-circuit protection	YES							
AC over-voltage protection	YES							
PV Reverse Polarity Protection	YES							
Residual Current Monitoring	YES							
Surge Arrestor	DC/AC							
Insulation detection	YES							
<b>MECHANICAL</b>								
W x H x D	280mm*336mm*130mm			320mm*344mm*137mm				
Weight	5 KG			9 KG				
DC switch	YES							
<b>CERTIFICATION</b>								
Grid Connection	IEC 61727							
Anti-Islanding Protection	IEC 62116							
Environmental Testing	IEC 60068-2 (1-2-14-30)							
Safety	IEC 62109-1/2							
EMC	IEC 61000-6-2/3							
<b>WARRANTY</b>								
7 Years								

Note : ①The range of output voltage and frequency may vary depending upon different grid codes.  
②Specifications are subject to change without advance notice.