

## SUITABLE FOR COMMERCIAL & INDUSTRIAL ROOFTOP SOLAR PROJECTS

### Three Phase

PSIT-40K-SM6

PSIT-50K-SM8

PSIT-60K-SM8



### LEADING FEATURES



- Maximum Efficiency 98.2%
- Wide Voltage Range
- Supports 50% DC oversize,
- 3/4 MPPT design with precise MPPT algorithm
- THDi < 3%,
- IP66 Enclosure
- Intelligent Fan Cooling
- Intelligent string monitoring

- Smart I-V Curve Diagnosis
- Fuse free design to avoid hazard
- Type II SPD for both DC and A C side
- Integrated DC disconnect switches
- RS-485,Wi-Fi / GPRS monitoring interface
- Support "Y" type connection in DC side
- Supports aluminium wire access to reduce cost
- Free remote monitoring on Web Portal and Mobile App

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TECHNICAL SPECIFICATIONS			
MODEL	PSIT-40K-SM6	PSIT-50K-SM8	PSIT-60K-SM8
RATING	40kW	50kW	60kW
<b>INPUT (PV)</b>			
Max. Input Voltage		1100V	
Max. PV configuration (STC)		150%	
Rated Input Voltage		620V	
Max. Input Current	40A+2*32A	40A+3*32A	40A+3*32A
Max. Short Circuit Current	50A+2*45A	50A+3*45A	50A+3*45A
Start Input Voltage		200V	
MPPT Operating Voltage Range		180-1000V	
Max. Number of PV Strings	2/2/2	2/2/2/2	2/2/2/2
No. of MPPTs	3	4	4
<b>OUTPUT (GRID)</b>			
Rated AC Active Power	40000W	50000W	60000W
Max. AC Apparent Power	44500VA	55600VA	66700VA
Max. AC Active Power (PF=1)	44500W	55600W	66700W
Max. AC Output Current	67.5A	84.3A	92A
Rated AC Voltage	380/400/415V, 3L/N/PE,3L/PE		
AC Voltage Range <sup>①</sup>	322V-520V		
Rated Grid Frequency	50Hz/60Hz		
Grid Frequency Range <sup>②</sup>	45-55Hz/55-65Hz		
THDI	3% (Rated Power)		
DC Current Injection	<0.5%In		
Power Factor	>0.99 Rated power (Adjustable 0.8 leading - 0.8 Lagging)		
<b>EFFICIENCY</b>			
Max. Efficiency	98.2%	98.2%	98.2%
European Efficiency	97.8%	97.8%	97.8%
<b>PROTECTIONS</b>			
DC switch	YES		
Anti-islanding protection	YES		
AC overcurrent protection	YES		
AC short circuit protection	YES		
DC reverse protection	YES		
Surge Arrester	DC Type II / AC Type II		
Insulation detection	YES		
Leakage current protection	YES		
<b>GENERAL</b>			
Topology	Transformer-less		
IP Rating	IP66		
Night Self Consumption	<1W(standard)		
Cooling	Fan cooling		
Operating Temperature Range	-25°C-60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Noise(typical)	<45dB	<45dB	<55dB
Dimensions (W*H*D)	635mm*530mm*224mm		635mm*530mm*233mm
Weight	41.5kg	42kg	42 kg
<b>HMI &amp; COM</b>			
Display	Wireless & APP+LED, LCD		
Communication	WiFi, RS485(Optional), GPRS(Optional)		
<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, IEC 62109-2		
EMC	IEC 61000		
Efficiency Measurement	IEC 61683		
<b>Warranty</b>	<b>7 Years</b>		

Note : ①②The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice.