

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 overload,
- 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

Three phase 40 kw | 50 kw | 60 kw

TECHNICAL SPECIFICATIONS

MODEL	PSIT-40K-SM6	PSIT-50K-SM8	PSIT-60K-SM8
<b>Efficiency</b>			
Max. Efficiency	98.2%	98.2%	98.2%
European Efficiency	97.8%	97.8%	97.8%
<b>Input(PV)</b>			
Max. Input Voltage		1100V	
Max. PV configuration (STC)		150%	
Rated Input Voltage		620V	
Max. Input Current	40A*3*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:		322V-520V	
Rated Grid Frequency		50Hz/60Hz	
Grid Frequency Range%		45-55Hz/55-65Hz	
THDI		3% (Rated Power)	
DC Current Injection		<0.5%In	
Power Factor		0.8LD-0.8LG	
<b>Protection</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	635mm*530mm*224mm	<45dB
Dimensions (W*H*D)			<55dB
Weight	41.5kg	42kg	635mm*530mm*233mm
			42 kg
<b>HMI &amp; COM</b>			
Display		Wireless & APP+LED, LCD	
Communication		Wi-Fi / RS485 & 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>		7 Years	

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