

IPT Series Technical Specifications

Model	IPT-5K-SH	IPT-6K-SH	IPT-8K-SH	IPT-10K-SH
	IPT-5K-S	IPT-6K-S	IPT-8K-S	IPT-10K-S
Input (PV)				
Max. Input Voltage	1000V			
MPPT Operating Voltage Range	160-950V			
Max. Input Power	9000W	9000W	15000 W	15000 W
Max. Input Current	15A/15A	15A/15A	20A/30A	20A/30A
Max. Short Circuit Current	20A/20A	20A/20A	30A/40A	30A/40A
Max. Number of PV Strings	2 (1/1)		3 (1/2)	
No. of MPPTs	2			
Overvoltage Category (OVC)	II			
Max input DC power (W)	9000W	9000W	15000 W	15000 W
Input (Battery)				
Compatible battery type	Lithium -ion/Lead-acid			
Battery voltage range	150-600V			
Nominal battery voltage (Full load)	250-600V			
Max. charge/discharge current	25A/25A	25A/25A	50A/50A	50A/50A
Max. charge/discharge power	9000W/5800W	9000W/7000W	15000W/9100W	15000W/11300W
Lithium battery charge curve	Self -adaption to BMS			
Output (On Grid)				
Rated Grid voltage	380V/400V/415V 3W+N+PE			
Rated Grid Frequency	50Hz/60Hz			
Grid Frequency Range**	45Hz -55Hz/55Hz -65Hz			
Rated output current	3*7.2 A	3*8.7 A	3*11.6 A	3*14.5 A
Nom. Power (Output)	5000W	6000W	8000W	10000W
Maximum Power (Output)	5500W	6600W	8800W	11000W
Apparent Power (Output)	5500VA	6600VA	8800VA	11000VA
Maximum Current (Output)	3*8.3A	3*10A	3*13.3A	3*16.7A/3*16A ^①
Maximum Current (Input)	3*25A	3*25A	3*25A	3*25A
THDI	<5%(according to different on-Grid regulation)			
DC Current Injection	<0.5%In			
Power Factor	> 0.99 Rated power (Adjustable 0.8 Leading - 0.8Lagging)			
Overvoltage Category (OVC)	III			
Output (Backup)				
Nom. power	5000VA	6000VA	8000VA	10000VA
Maximum power (5min)	6000VA	7200VA	9600VA	12000VA
Maximum power (10s)	7500VA	9000VA	12000VA	15000VA
Rated voltage	380V/400V/415V 3W+N+PE			
Backup switch time	10ms (typical), 20ms (max)			
THDV	<3% (R Load) ,8% (RCD Load)			
Efficiency				
Max. Efficiency (PV to Grid)*	98.2%	98.2%	98.4%	98.4%
European Efficiency (PV to Grid)*	97.2%	97.2%	97.9%	97.9%
Max. Charge Efficiency (PV to Battery)*	98%	98%	98%	98%
Max. Charge/Discharge Efficiency (Grid to Battery)*	98%	98%	98%	98%

①: The specification of “3*16A” is only for British Market.

Protection	
DC switch	Support
Anti-islanding protection	Support
AC overcurrent protection	Support
AC short circuit protection	Support
AC over-voltage protection	Support
SPD	DC Type2, AC Type2
GFCI	Support
AFCI	Optional
RSD	Optional (Tigo/APS)
Insulation detection	Support
General	
Topology	Transformerless
IP Rating	IP65
Cooling	Natural cooling
Operating Temperature Range	-25°C -60°C
Relative Humidity Range	0-100%
Max. Operating Altitude	4000m(>2000m derating)
Noise	<30 dB(Measured at 1m)
Dimensions (W*H*D)	530*550*213mm(IPT-xK-S) 530*550*232mm(IPT-xK-SH)
Weight	29.6KG 32KG
Pollution degree classification	PD3
Voltage Class DVC	Class A(DC), Class C(PV), Class C(AC), Class A(COM)
Min operating voltage range	160Vdc
Input start-up voltage	150Vdc
Active anti-islanding method	Frequency shift
Protective Class	Class I
HMI & COM	
Display	APP +LED
Communication	WiFi/GPRS/4G/Ethernet (optional);
	BMS (CAN/RS485)
	DRM
	1*DI
	2*DO
	METER (RS485)
Voltage Class DVC	Class A(DC), Class C(PV), Class C(AC), Class A(COM)

Remarks :

- *Not yet tested;
- **The range of output voltage and frequency may vary depending upon different grid codes.
- Specifications are subject to change without advance notice.
- The energy storage system will reduce the output under high temperature (above 45 °C)for self-protection.