

# Top Star Series 1K-10KVA

## Outdoor Industrial Compact UPS

T1KVA - T10KVA (1ph in / 1ph out)



### Key Features:

- UPSEN Outdoor Intelligent High Frequency Online UPS provide continuous pure sine wave AC power supply for outside communications / network equipment. Double-conversion online design, high temperature resistant, anti-cold, sealing level for IP65; With the wide range of input voltage and frequency of input window (-45% +35% rated voltage and  $\pm 10\%$  rated frequency), in many remote areas of China after a severe test of the grid.

### Applications:

- UPSEN industrial UPS is mainly used in the corner of the city, remote roads, mountains, bad environment, such as high temperature ( $+50^{\circ}\text{C}$ ) / low temperature ( $-15^{\circ}\text{C}$ ), severe dust, moisture, rain, mist erosion, very poor power quality (voltage long-term higher than 260V or less than 160V, frequency abnormal change) in the area.

**Shenzhen UPSEN Electronic CO., Ltd.**  
[www.upsen.net](http://www.upsen.net)

# Technical Specification:

Model		T1K	T2K	T3K	T6K	T10K
Capacity	Capacity	1KVA/900W	2KVA/1800W	3KVA/2700W	6KVA/5400W	10KVA/9000W
Input	Nominal Voltage	220 / 230 / 240VAC				
	Nominal Frequency	50 / 60HZ				
	Voltage Range	115~230VAC			176~279VAC	
	Frequency Range	50HZ(45~55HZ), 60H(56HZ~64HZ)				
	Frequency Following Speed	1Hz/s				
	Power Factor	>0.95(Full load)			>0.98(Full load)	
Output	Voltage Precision	220 / 230 / 240 (±2%)VAC				
	Frequency Precision	50 / 60HZ ± 0.1Hz				
	Power Factor	0.9				
	Efficiency	≥88%			≥87%	
	THDI	< 3% (Linear load); < 7% (Non-linear load)			< 3% (Linear load); < 5% (Non-linear load)	
	Overload Capability	Load≥105%±5% turn to bypass after 25s-47s with alarm Load≥150%±5% turn to bypass after ≤25s with alarm Load≥200%±5% turn to bypass after ≤300 ms with alarm			>105%~130% transfer to bypass load returning to normal after recovery >130% transfer to bypass closed output in one minute	
	Crest Factor	3:1				
	Transfer Time	0ms: Utility Mode To Battery Mode <4ms: Invert Mode To Bypass Mode(standard value is 2.4ms)				
Battery	DC Voltage	36/48VDC	48/72VDC	96VDC	240VDC	
	Charge Current	4A/8A(Optional)			4.8A/9.6A(Option)	
	Internal Battery Capacity	(12V38AH / 12V65AH / 12V80AH / 12V100AH )optional				
Panel Display	LED/LCD Digital Display	Display input and output voltage, frequency, battery voltage, battery capacity, load percentage				
Communications	Communicate Interface	RS232; SNMP Card ( Option )				
Protection	Protection function	Input/Output High Voltage, Over Load, Output Short, Over temperature, Battery Low, Over Charge, Surge Protection				
	Dry Contact	( Option )				
	Type	Relay				
	Function	①UPS Failure ②Utility Failure ③Door Opened				
	Maintenance switch	Manual Maintenance Bypass Switch				
	Surge Protection Degree	C CLASS				
Enviroment	Work Temperature	0~40℃				
	Storage Temperature	-20℃ ~ 55℃			-40℃ ~ 55℃	
	Humidity	0~95% Non-condensing				
	Altitude	< 2000m				
	Acoustic Noise	< 50dB ( within 1 meter)				

\*Specifications are subject to change without prior notice.