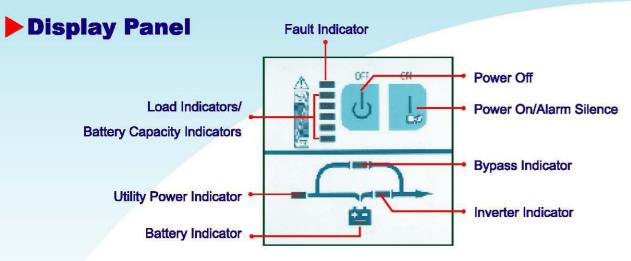


- Microprocessor Control Guarantees High Reliability
- PWM Technology with IGBTs
- Wide Input Voltage Range
- Communication Ports Selectable : Smart RS-232 and Intelligent Slot for AS-400, and SNMP Card
- Free Download Software from the Internet for Monitoring UPS Status
- Optional External Battery Socket Available for Extended Backup Time
- Cold Start Function
- Auto Self-testing System while Turning on the UPS
- Tower and Rack Mount Available
- Modular Design Available for Titan 1K/Titan 2K/Titan 3K
- Maintenance Bypass Switch and DSP Technology Application for Titan 6K/Titan 10K
- Two-Step Intelligent Charging Mode Available for Titan 6K/Titan 10K S Models
- N+X Parallel Redundancy and Capacity Expansion for Titan 6K/Titan 10K





Back Panel

9 Back Panel for all models

- 1. Communication Port
- 2. Intelligent Slot
- 3. External Battery Socket (For Smodel ONIY)
- 4. Breaker
- 5. Output Socket
- 6. Network/Fax/Modem Surge Protection
- 7. Input Socket
- 8. Output Terminal Block
- 9. Parallel Port
- 10. Input Breaker
- 11. Maintenance Switch
- 12. Terminal





TITAN 110V / 115V / 120V ON-LINE UPS SPECIFICATION

MODEL			TITAN 1K	TITAN 1KS*	TITAN 1.5K	TITAN 1.5KS*	TITAN 3K	TITAN 3KS*			
CAPACITY	VAW		1000	VA/700W	2000VA	V1400W	3000VA	V2100W			
INPUT	Voltage				60~1	38VAC					
	Voltage		Base on load perc	entage (100%-70%	% / 70%-60% / 60%	6-50% / 50%-40% <i>i</i>	40%-0%)				
	Range	Low Line Transfer	80VAC/70VAC/70VAC/60VAC/60VAC								
		Low Line Comeback	85VAC/85VAC/75VAC/75VAC/65VAC								
		High Line Transfer	138VAC								
		High Line Comeback	133VAC								
	Frequency F	Range	46Hz ~ 54Hz / 56Hz ~ 64Hz								
	Phase		Single phase with ground								
	Power Factor		≥0.95								
OUTPUT	Voltage		110VAC/115VAC/120VAC								
	Voltage Regulation		±2%								
	Frequency (Synchronized range)	46Hz ~ 54Hz / 56Hz ~ 64Hz								
	Frequency (Battery Mode)	50/60Hz ± 0.2 Hz								
	Current Cres	st Ratio	3:1								
			≤5% THD (Linear Load)								
	Harmonic Di	stortion	≤ 10% THD (Non-Linear Load)								
	Output Wav	eform	Pure Sinewave								
EFFICIENCY	To AC Mode		85	5%	3%	86%					
	Tower Case	To Battery Mode	83%		82%		83%				
		To AC Mode	85	5%	83%		86%				
	Rack Case	To Battery Mode	83	3%	82%		83%				
BATTERY	Tower Case	Battery Type	12V/7.2Ah	5-100	12V/7.2Ah		12V/7.2Ah	76292 9626 50			
2 , (() 2 , ()		Numbers of Batteries	3	Depending on thecapacity of	4	Depending on thecapacity of	8	Depending on thecapacity of			
		Backup Time (Full Load)	>5 minutes	external	>5 minutes	external batteries	>5 minutes	external			
		Recharge Time	8 hours to 90%	batteries	8 hours to 90%		8 hours to 90%	batteries			
		Charging Current (Max.)	1.0A	7.8A	1.0A		1.0A	7.8A			
		Charging Voltage		± 0.6V	I HARRIST HORSE FOR A STATE OF THE STATE OF	c ± 0.4V	No contrador dos contrador	± 0.4V			
		Battery Type	12V/7.2Ah		12V/7.2Ah	Depending on thecapacity of external batteries	12V/7.2Ah				
	Rack Case	Numbers of Batteries	3	Depending on	4		8	Depending or thecapacity of external			
		Backup Time (Full Load)	>5 minutes	thecapacity of external	>5 minutes		>5 minutes				
		Recharge Time	8 hours to 90%	batteries	8 hours to 90%		8 hours to 90%	batteries			
		Charging Current (Max.)	1.0A	7.8A	1.0A	7.8A	1.0A	7.8A			
		Charging Voltage	41.1Vdc +0		54.9Vdc			± 0.4V			
		External Battery Rack	N/A	12V/7.2Ahx6	N/A	12V/7.2Ahx8	N/A	12V/7.2Ahx8			
TRANSFER TIME	AC to DC	External Battery Nack	1674	1207.274100			1805	12477.254130			
TRANSFER TIME	AC to DC Inverter to Bypass		Zero Zero Zero								
INDICATOR -	Status	уразэ									
theydalas be botal		<u> </u>	Load Level / Battery Level / Battery Mode / AC Mode / Bypass Mode / Fault								
AUDIBLE ALARM	Battery Mode		Sounding every 4 seconds								
	Low Battery		Sounding every second								
	Overload		Sounding twice every second Continuously Sounding								
DIMENSION	Fault		400-44	5×220	1	15x220	465-100-240				
	Tower Case (DxWxH) mm Rack Case (DxWxH) mm		400x145x220 482 6x450x87(w_batten)				465x192x340 482.6x450x88				
WEIGHT	Tower Case (DXWXH) mm		482.6x450x87(w. battery)		482.6x450x88 17.5 kgs 9 kgs		482.6x450x88 33 kgs 16 kgs				
	Tower Case	i e	13 kgs	7 kgs	,	10.10.40.43.000					
	Rack Case	UPS Case	15.3 kgs	9.1 kgs	19.3 kgs	11.5 kgs	11.2 kgs	12.3 kgs			
ENVIRONMENT	Battery Pack		N/A 20.5 kgs N/A 25.3 kgs N/A 25.3 kgs								
	Operating Temperature		0-40° C								
	Relative Humidity		20-90% (Non-Condensing)								
INTERFACE	Noise Level Smart RS-232		<45dB @ 1Meter <45dB @ 1Meter <50dB @ 1Meter Windows 98/NT/2000/XP/2003, Linux, Sun Solaris, IBM Aix, Compaq True64,								
			SGI IRIX, FreeBSD, HP-UX, and MAC								
	SNMP (option	on)	Power management from SNMP manager and web browser								

CENTRALION INDUSTRIAL INC



Address: 9F, NO. 135,Sec. 2, Ta-Tong Rd., Hsi-Chih, Taipei Hsien, Taiwan R.O.C. Tel: 886-2-8692-6288 (20 Lines) Fax:886-2-8692-6289

E-mail: sales@centralion.com

Home Page: http://www.centralion.com

Titan Series UPS make use of the unique AC-DC conversion circuitry to detect the electricity current and voltage output of utility power supply. The current is input via the high frequency PWM to maintain uniform wave form and phase in line with the voltage, so as to attain high input power factor over 95% and avoid generating comparatively significant harmonic interference on the power network. With the use of the outstanding IGBT as the power conversation component, the operating frequency of the Inverter of UPS is capable of reaching tens of KHz, due to the high frequency operating characteristics of IGBT. Higher working efficiency of the inverter alwo improves the overall efficiency of UPS. Moreover, higher inversion frequency reduces the noise of the inverter as well.

TITAN RACK



Microprocessor Control:

By means of innovative software control programs, the complicated hardware circuitry is inlaid in the powerful microprocessor. Apart from reduced size, it also lowers the defective rate of UPS.

Communication Ports:

Offering three different communication ports for user selection: RS-232, SNMP slot and AS-400 slot. Through either one of them, the user can control and monitor UPS status easily.

Extended Backup Time:

Long Backup Models are allowed to connect external batteries to get prolonged backup time. It is particularly suitable for use in areas where power supply is consistently in shortage.

Cold Start Function:

The unique Cold Start Function elaborates the emergency standby capability of UPS to a sufficient extent.

Auto Self-Testing System:

When the UPS is powered on, it immediately performs an inspection of the components such as the inverter and the battery as well as the load, so as to detect any problem in time to avoid causing any negligence or loss.

Tower And Rack Mount Available:

The tower-designed models occupy the minimum footprint. And the rack mount models are ideal for rack-optimized servers.

Modular Design:

Titan 1-3KVA is the modular design UPS. There are many small modular boards on the Power Board. They are Fan module, Charger module, Power Supply module, DC-DC module, PFC module and PWM Driver module etc. The modular design would help technicians easily to maintain and repair the UPS and the product quality will be more reliable.

DSP Technology:

Titan 6K/10K adopts DSP technology. DSP is applied to replace bulky transformers, relays and mechanical bypass switches with smaller, more intelligent functional equivalents. DSP implementations also facilitate other design benefits, including increased power efficiency and increased power density - smaller product footprint with less weight.

Two-step Charging System:

Two steps external charger boards are applying to the Titan 6-10KVA S models. The intelligent two-step charger will help to reduce the charging time than the cheaper constant voltage charger.

N+X Parallel Redundancy and Capacity Expansion:

Titan 6K/10K provides the capacity expansion which is capable to parallel up to 3 UPS systems, this system can be connected in parallel to realize output power sharing and power redundancy. In case one unit fails or be shut down for maintenance, the power is still operating without any interrupting to supply the load. Then the total load will be automatically transferred to the remaining units.

TITAN 220V/230V/240V ON-LINE UPS SPECIFICATION

MODEL			TITAN-1K	TITAN-1KS*	TITAN - 2K	TITAN - 2KS*	TITAN - 3K	TITAN - 3KS*	TITAN - 6K	TITAN - 6KS*	TITAN-10K	TITAN-10KS*	
CAPACITY	VAW		1000VA	V700W		A/1400W	3000V	A/2100W	6000VA	J4200W	10000V	4/7000W	
INPUT	Voltage Range		Base on load percentage (100%-80% / 80%-70% / 70%-60% / 60%-0%)							1000077010007			
	64011 50000	Line Low Transfer	160VAC/140VAC/120VAC/110VAC± 5VAC (Customized)						176 ±3% VAC				
		Line Low Comeback	175VAC± 5VAC						185 ± 3% VAC				
		Line High Transfer	300VAC± 5VAC						276 ± 3% VAC				
		Line High Comeback	285VAC± 5VAC						276 ± 3% VAC 266 ± 3% VAC				
			AND						266 ± 3% VAC 46Hz ~ 54Hz				
	Frequency Range		46Hz ~ 54Hz										
	Phase Power Factor		Single phase with ground						Single phase with ground				
OUTPUT	Control (Control Control Contr		≥0.95						≥0.98				
OUTFUT	Voltage		220VAC/230VAC/240VAC						220/230/240VAC				
	Voltage Regulation		± 2% (Customized)							± 1%			
	Frequency (Synchronized Range)		46~54Hz							46~54Hz			
	Frequency (Battery Mode)		50 ± 0.2 Hz							50Hz ± 0.05Hz			
	Current Crest Ratio		3:1							3:1			
	Harmonic Distortion	Tower Case	≦3% THD (Line:	ar Load)	≤4% THD (Linear Load)				≦ 2% THD (Linear Load)				
	Distortion		≤6% THD (Non-	≨6% THD (Non-Linear Load) ≤7% THD (Non-Linear Load)				d)		≦ 6% THD (Non-Linear Load)			
		Rack Case			≦	≤4% THD (Linear Load)				N/A			
			≦7% THD (Non-Linear Load)							IN/A			
	Output Waveform						Pure Sinewave						
EFFICIENCY	To AC Mode	To AC Mode		85%		85%		88%		> 88%			
	To Battery Mode		83%		83%		83%		> 00%				
BATTERY	Tower Case	Battery Type	12V/7.2Ah	200	12V/7.2Ah	Depending on	12V/7.2Ah	Depending on	12V/7.2Ah	Depending on	12V/9Ah	Depending on	
		Numbers of Batteries	3	Depending on	8	the capacity of	8	the capacity of	20	the capacity of	20	the capacity of	
		Backup Time (Full Load)	>5 minutes	the capacity of external batteries		external	>5 minutes	external	8 minutes	external 5 minutes	external		
			5 hours to 90%	CATCHIAI DATICHES	5 hours to 90%	batteries	5 hours to 90%	batteries	7 hours to 90%	batteries	8 hours to 90%	batteries	
		Charging Current (Max.)	1.0A	7A	1.0A	9.6A	1.0A	9.6A	2A	4.2A	2A	4.2A	
		Charging Voltage	41.1Vdc ± 0.6V		Action in a distribution		c ± 0.4V		26. tan).	274Vdc ± 1V		(5000 Mag(186)	
	Rack Case	Battery Type	12V/7.2Ah	Depending on	12V/7.2Ah	Depending on	12V/7.2Ah	Depending on	12V/7.2Ah	ZIFIGGO E 19			
	Total State of the	Numbers of Batteries	3	the capacity of	8	the capacity of	8	the capacity of	20	1			
			-	external batteries		external		external		1	N/A		
		Backup Time (Full Load) Charging Current (Max.)		7A	>9 minutes 1.0A	batteries 9.6A	>5 minutes 1.0A	batteries 9.6A	>8 minutes 2A	147.4			
		W 1000 1000 1000 1000 1000 1000 1000 10		and the same of th	1.0/		-	9.0A					
TRANSFER TIME	Charging Voltage AC to DC		41.1Vdc ± 0.6V 110Vdc ± 0.4V Zero						274Vdc ± 0.5V				
THOUSE EN TIME	Inverter to Bypass		300000000							7220			
INDICATOR		•	2.5ms (Typical) Zero										
INDICATOR	Status				Load	_evel / Battery Le		The second of the second	Bypass Mode / F	ault			
	Battery Mode		Sounding every 4 seconds										
	Low Battery		Sounding every second										
	Overload		Sounding twice every second										
	Fault		Continuously Sounding										
DIMENSION	Tower Case (DxWxH)mm		400x145x220		460x192x340			570x260x717					
	Rack Case	Rack UPS	482.6x450x87 (w. battery)		482.6x450x87			600x482.6x132	-I N/A				
	(DxWxH) mm	Battery Pack	482.6x450x87		482.6x450x87			600x482.6x132					
WEIGHT	Tower Case (kgs)	ver Case (kgs)		7 kgs	34.5 kgs	15 kgs	35.5 kgs	16 kgs	90 kgs	35 kgs	93 kgs	38 kgs	
	Rack Case (kgs)		16.3 kgs (w. battery) 10.3 kgs 11.5 kgs 11.2 kgs 12.3 kgs 18.3 kgs N/A										
ENVIRONMENT	Operating Environment		0-40° C										
	Relative Humidity		20-90% (NON-CONDENSING)										
	Noise Level		<45dB @ 1 Meter <50dB @ 1 Meter						<55dB @ 1 meter				
INTERFACE	Smart RS-232		Software supports Windows 98/NT/2000/XP/2003, Linux, Sun Solaris, IBM Aix, Compaq True64, SGI IRIX, FreeBSD, HP-UX, and MAC										
	SNMP (option)			-			- 55 - 56			92	- 198 198 198 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 - 198 -		
	Jakaan)		Power management from SNMP manager and web browser										