

# Titan Elite Series

**SYNDOME**  
ผู้นำด้านระบบสำรองไฟฟ้า

**The New Gen.2 of HIGH PERFORMANCE  
TRUE ONLINE DOUBLE CONVERSION UPS**



## Features

- DSP Control
- 1.0 Output Power Factor (PF)
- Wide Input Range 110-275VAC(depend on load)
- Configurable Battery q'ty 16 to 20 pcs per string without power derating
- Battery capacity calculation
- Event log via LCD
- No power derating in full operating temperature range
- High Efficiency Inverter mode @95%
- Input THDI < 3%
- Output THDv < 5%
- Frequency Converter Mode
- Variety of Communication Ports that includes RS232,USB,EPO, Dry In (for remote action), Dry out (for UPS status)
- Maintenance bypass switch
- 3 hours recharging to 90% of battery capacity
- Charger current is adjustable, 1A to 12A through LCD
- N + X Parallel Redundancy
- Over Voltage Cut-Off device (OVCD) for Tough environment
- Emergency Power Off (EPO)
- Short Circuit Clearance with current limit
- Optional SNMP, Relay Cards & MODBUS
- Free Power Management Software for Standalone LAN & WAN

## Titan Elite Gen.2 series, built for the most reliability, purity and power

Titan Elite Gen.2 Series UPS is a features rich UPS that make use of the unique True Online Double Conversion circuitry to detect the electricity current and voltage output of utility power supply. The current is input via high frequency PWM to maintain uniform wave form and phase in line with the voltage, so as to attain high input power factor over to 0.995 and avoid generating comparatively significant harmonic interference on the power network.

With the use of the outstanding IGBT as the power conversion component, so as to get the full performance of output capacity at PF 1.0, Higher working efficiency of the inverter also improves the overall efficiency of UPS upto 95% and higher inversion frequency reduces the noise of the inverter as well.

# Product Information

## Titan Elite Series



MODEL		TE-6k	TE-6kS	TE-10k	TE-10kS
CAPACITY	VA/WATT	6000VA/6000W (PF1.0)		10000VA/10000W (PF1.0)	
INPUT	Voltage Range	110 - 275 VAC			
	Frequency Range	45-55Hz/54-66Hz (extendable to 40-70Hz when load <60%)			
	Phase	Single phase with ground			
	Current THDI	<3%			
	Power Factor	≥0.995			
	Generator Input	1.5 x UPS Rating Power			
OUTPUT	Voltage Range	220VAC/230VAC/240VAC (± 1%)			
	Phase	Single phase with ground			
	Frequency (Synchronized Range)	45-55Hz/54-66Hz (extendable to 40-70Hz when load <60%)			
	Frequency (Battery Mode)	50/60Hz ± 0.01Hz			
	Current Crest Ratio	3:1			
	Harmonic Distortion	< 1% THD @Linear Load , <5% @non-linear load			
	Protection	Short Circuit Protection			
	Output Waform	Pure Sinewave			
	Outlet	Terminal Block			
	Overload Capacity	Line Mode	10 min @ 105%~125% ; 30 sec @ 125% ~ 150% ; 500 msec @ > 150%		
	Battery Mode	1 min @ 105%~125% ; 30 sec @ 125% ~ 150% ; 500 msec @ > 150%			
EFFICIENCY	AC Mode / Battery Mode	> 95% / >95 %			
	ECO mode	> 98%			
BATTERY	Number of Batteries Per Set	16/17/18/19/20	Depending on the capacity of external batteries	16/17/18/19/20	Depending on the capacity of external batteries
	Battery Capacity (Ahr)	12V/(7/9)Ahr		12V/(7/9)Ahr	
	Backup Time (depend on load)	>15 min		>15 min	
	Recharge Time (to 90%)	3 Hours		3 Hours	
	Charge Current Adjustable	default 1A(0-4A)	default 4.0A (0-12A)	default 1A(0-4A)	default 4.0A (0-12A)
	Rated Battery Voltage	192-240 Vdc (adjustable)			
	Battery Type	Sealed Lead Acid Maintenance Free			
TRANSFER TIME	AC to DC	Zero			
Parallel	N+X Parallel Redundancy	Max 3 (Load Sharing)			
INDICATOR	LED & LCD display	LED: Online mode, Battery mode,Bypass/Standby mode, Fault. LCD: Input/Output Voltage&Frequency, Load level,Load Watt, Load VA, Battery Voltage,Battery status,Converter mode, Battery Remaining Time,Battery running Time, UPS status, Fault indicator, Event Log,etc.			
AUDIBLE ALARM	Battery Mode	Sounding every 4 seconds			
	Low Battery	Sounding every second			
	Overload	Sounding twice every second			
	Fault	Continuously Sounding			
DIMENSION	W x H x D mm	220 x 589 x 492	220 x 348 x 492	220 x 589 x 492	220 x 348 x 492
WEIGHT	kg	52.7	13 ex.bat	60.3	15.2 ex.bat
ENVIRONMENT	Operating Environment	0-40° C			
	Relative Humidity	0-95% (NON-CONDENSING)			
	Noise Level	<45dB @ 1 Meter		<50dB @ 1 Meter	
INTERFACE	USB & RS-232	Software supports Windows Family, Linux, Sun Solaris, IBM AIX, Compaq True64, SGI IRIX, FressBSD, HP-UX and MAC			
	Smart Slot (Option)	SNMP Adapter/ AS400 Relay Card / RS485 / USB			
INTERNATIONAL STANDARDS	CE	Safety (IEC62040-1-1), EMC: IEC/EN 62040-2, IEC 61000-4-2(ESD):level 3, IEC 61000-4-3 (Radiated field): level 3, IEC 61000-4-4(EFT):level 4, IEC61000-4-5 (Fast transients): level 4, IEC 61999-4-6 (Electromagnetic field): level 3, IEC 61000-4-8 (Conducted magnetic field):level 4, Performance: IEC/EN 62040-3			

Specification are subject to change without prior notice.



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