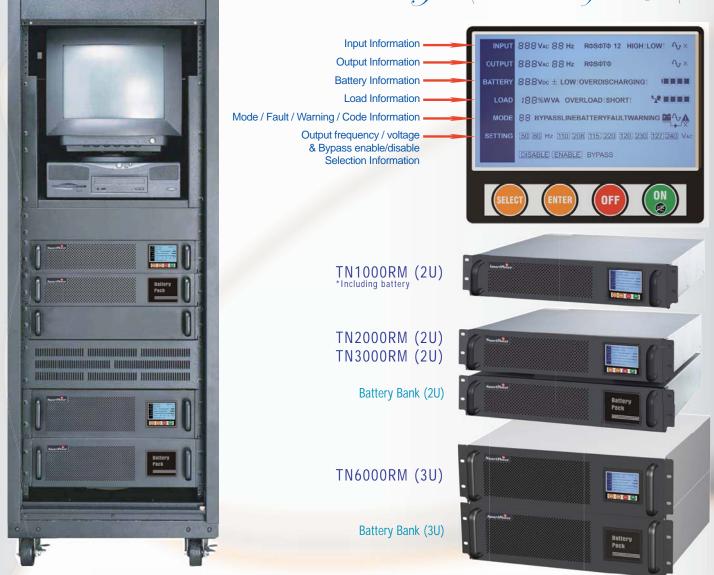
Titanium Rack Series





Titanium Rack series True Online Double Conversion Design

Titanium Rack 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 convertion 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 effiency of the inverter also improves the overall efficiency of UPS. Morover, higher inversion frequency reduces the noise of the inverter as well.

- 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 (WinPower) 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
- DSP Technology is applied to replace bulky transformers, relays switched with smaller, more intelligent functional, increased power efficiency and increased power density smaller product footprint with less weight.
 (Available for TN6000RM & TN6000RMS)
- Sealed, Maintenance Free, Valve regulated, Lead Acid battery type
- Auto Restart System, when UPS shutdown from low voltage, it immediatly start up while the Utility is coming back to normal stage.

Product Informations *Titanium Rack Series*

MODEL			TN1000RM	TN1000RMS*	TN2000RM	TN2000RMS*	TN3000RM	TN3000RMS*	TN6000RM	TN6000RMS
CAPACITY	VA/WATT		1000V/	4/700W	2000V	√1400W	3000VA	/2100W	6000VA	4/4200W
INPUT	Voltage Range		220 VAC ± 25%							
	Frequency Range		50 Hz ± 10% (Auto sensing)							
	Phase		Single phase with ground							
	Current THDI		<12%						<10%	
	Power Factor		≥0.98						I	
	Generator Input		Support							
OUTPUT	Voltage		220 VAC							
	Voltage Regulation		± 2%						± 1%	
	Frequency (Synchonized Range)		50 Hz ± 10%							
	Frequency (Battery Mode)		50 Hz ± 0.1%							
	Current Crest Ratio		3:1							
	Harmonic Distortion		≤3% THD (Linear Load)						≦2% THD (Linear Load)	
	Protection		Short Circuit Protection with current limit capability							
	Output Waform		Pure Sinewave							
	Outlet		NEMA NEMA + Terminal Block							
	Overload Capacity	Line Mode	60s @ 100%~130% ; 1s @ > 130%							
		Battery	10s @ 100%~130% ; 1s @ >130%							
	Redundancy (Option)		Hot Standby With STS technology (2 units Max)							
FFICIENCY	AC to AC Mode at full load								88%	
BATTERY	Number of Batteries					70	8			
	Per Set		3	Depending on the capacity of external batteries	8	Depending on the capacity of external batteries		Depending on the capacity of external batteries	20	Depending on the capacity of external batteries
	Battery Capacity (Ahr)		12V/7Ahr		12V/7Ahr		12V/7Ahr		12V/7Ahr	
	Backup Time (depend on load)		>15 min		>15 min		>15 min		>15 min	
	Recharge Time (to 90%)		5 Hours		5 Hours		5 Hours		5 Hours	
	Charging Current (Max.)		1.0A	7.0A	1.0A	9.6A	1.0A	9.6A	2.0A	4.2A
	Rated Battery Voltage		36Vdc 96Vdc 96Vdc					240Vdc		
	Battery Type		Sealed, Maintenance free, Valve regulated, Lead Acid							
RANSFER TIME	Normal Mode		Zero							
INDICATOR	LED (Option)		Load Level / Battery Level / Battery Mode / AC Mode / Bypass Mode / Fault (Battery Replacement, Inverter fail, etc.) Input: Volt / Freq / High Volt / Low Volt / Utility Present / Utility Lost, Output: Volt / Freq / Utility Present / Utility Lost, Load: %Watt / % VA /							
	LCD		Overload / Short circuit / Load level, Battery: Volt / Level / Low / Over charg / Discharg, Mode: Bypass / Line / Battery /Fault / Warning / Etc.							
AUDIBLE ALARM	Battery Mode		Sounding every 4 seconds							
	Low Battery		Sounding every second							
	Overload		Sounding twice every second							
	Fault		Continuously Sounding							
IMENSION	Rack Case (DxWxH)mm		Control Case 482.6x450x87 / Battery Case 482.6x450x87						(600x482.6x132) 2 unit	
/EIGHT Rack Case (kgs)		gs)	10.3 ex.Bat 10.3 ex.bat 11.5 ex.bat 18.3 ex.bat							
ENVIRONMENT	Operating Environment		0-40° C							
	Relative Humidity		0-95% (NON-CONDENSING)							
	Noise Level		<45dB @ 1 Meter <50dB @ 1 Meter							
INTERFACE	Smart RS-232		Software supports Windows Family, Linux, Sun Solaris, IBM AIX, Compaq 64, SGI IRIX, FreeBSD, HP-UX and MA							
	Smart Slot (Option)		SNMP adapter / AS400 Relay Card / RS 485 / USB							
NTERNATIONAL TANDARDS	CE				Directive: EN62	(Safety): EN6 040-2, EN6100 000-4-5, EN61	00-2-2, EN610	00-4-2, EN610	00-4-3, EN610	00-4-4,

Specification are subject to change without prior notice.

CONTACT INFORMATION