

Titan X9



Titan X9 1K(L) / 1.5K(L) / 2K(L) / 3K(L)



Titan X9 6K(L) / 10K(L)



ONLINE UPS

• True double-conversion online UPS

A true double conversion UPS will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer centers servers, telecom applications, as well as for industrial applications.

• Output power factor 0.9

Titan X9 is a high-density UPS with output power factor 0.9 to provide higher performance and efficiency to critical applications.

• User-friendly and easy-shift LCD display

The front panel digital display can be easily shifted through LCD setting to suit the installation format, vertically stand or flat wall mount.



• Rack/Tower design

Titan X9 series is designed in true universal-mount case. It can be easily installed as floor-standing tower or in 19-inch rackmount bracket.



19" rack-mounting



Floor-standing Tower

• Programmable power management outlets

With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to mission-critical devices by shutting down the non-critical devices.



Programmable Outlets (P1)- connect to non-critical devices

• 50/60 Hz frequency converter mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

• ECO and advanced ECO mode for energy saving

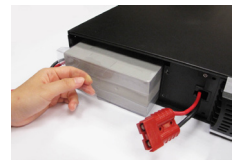
It allows UPS to operate in high efficiency up to 97% in energy-saving ECO mode. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems. Titan X9 1-3K even offers advanced ECO mode to allow UPS to operate at higher efficiency up to 98%.

• Emergency Power Off Function (EPO)

This feature can secure the personnel and equipment in case of fires or other emergencies.

• Hot-swappable battery design for 1-3K models only

This design ensures clean and uninterruptible power to protected equipment during battery replacement.



• DSP technology applied for 6K and up models

A DSP controller provides an improved and cost-effective solution with high performance.

• Active input power factor correction 0.99 for 6K and up models

This feature will save more energy and its power factor performance is more stable to meet higher environment standards.

• N+X parallel redundancy available for 6K and up models

Titan X9 (6K and up models) can be used in parallel operation with up to 3 units. It increases power capacity, safety and availability.

Titan X9

X9 Battery Pack

Capacity	1K	1.5K	2K	3K
Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V 9 Ah
Battery Number	4 pcs	6 pcs	8 pcs	12 pcs
Dimension (DxWxH)	380 x 438 x 88	480 x 438 x 88		600 x 438 x 88
Net Weight (kgs)	17.3	24.8	29.8	42.5

X9 1KVA/1.5KVA/2KVA/3KVA Rack/Tower Online UPS Selection Guide

MODEL	Titan X9 1K	Titan X9 1KL	Titna X9 1.5K	Titan X9 1.5KL	Titan X9 2K	Titan X9 2KL	Titan X9 3K	Titan X9 3KL
PHASE	Single phase with ground							
CAPACITY	VA	1000 VA	1500 VA		2000 VA		3000 VA	
	W	900 W	1350 W		1800 W		2700 W	
INPUT								
Nominal Voltage	100*/110*/115*/120/127 VAC or 200/208/220/230/240 VAC							
Voltage Range	55-150 VAC ± 5% or 110-300 VAC ± 5%							
Frequency Range	40Hz ~ 70Hz							
Power Factor	0.99 @ Nominal Voltage (100% Load)							
OUTPUT								
Output Voltage	100*/110*/115*/120/127 VAC or 200/208/220/230/240 VAC							
AC Voltage Regulation (Batt. Mode)	± 1%							
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57 ~ 63 Hz							
Frequency Range (Batt. Mode)	50 Hz ± 0.5% or 60Hz ± 0.5%							
Current Crest Ratio	5:1 (max.)							
Harmonic Distortion (Line Mode)	2 % THD (Linear Load) ; 4 % THD (Non-linear load)							
Transfer Time	Line mode to Battery mode	Zero						
	Inverter to Bypass	4 ms (Typical)						
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
AC Mode	87%	88%		88%		89%		
Battery Mode	85%	86%		86%		87%		
ECO Mode	94%	95%		95%		97%		
BATTERY								
Battery Type	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries
Numbers	2		3		4		6	
Typical Recharge Time	4 hours recover to 90% capacity		4 hours recover to 90% capacity		4 hours recover to 90% capacity		4 hours recover to 90% capacity	
Charging Current (max.)	1.0 A	1A / 2A / 4A / 8A	1.0 A	1A / 2A / 4A / 8A	1.0 A	1A / 2A / 4A / 8A	1.0 A	1A / 2A / 4A / 8A
Charging Voltage	27.4 VDC ± 1%		41.1 VDC ± 1%		54.7 VDC ± 1%		82.1 VDC ± 1%	
INDICATORS								
LCD Display	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator							
ALARM								
Battery Mode	Sounding every 4 seconds							
Low Battery	Sounding every second							
Overload	Sounding twice every second							
Fault	Continuously sounding							
PHYSICAL								
Dimension, D x W x H (mm)	380 x 438 x 88 [2U]		480 x 438 x 88 [2U]		480 x 438 x 88 [2U]		600 x 438 x 88 [2U]	
Net Weight (kgs)	12.9	8.6	17.6	10.7	20.6	11.3	28	13.8
ENVIRONMENT								
Humidity	20-90 % RH @ 0- 40°C (Non-condensing)							
Noise Level	Less than 50dBA @ 1 Meter							
MANAGEMENT								
Smart RS-232 / USB	Supports Windows [®] 2000/2003/XP/Vista/2008, Windows [®] 7/8, Linux, Unix, and MAC							
Optional SNMP	Power management from SNMP manager and web browser							

**Derate capacity to 95% when the output voltage is adjusted to 115VAC, derate capacity to 90% when the output voltage is adjusted to 110VAC and derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC. Product specifications are subject to change without further notice

Titan X9

X9 Battery Pack

Capacity	1K	1.5 K	2 K	3 K
Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V 9 Ah
Battery Number	4 pcs	6 pcs	8 pcs	12 pcs
Dimension (DxWxH)	380 x 438 x 88		480 x 438 x 88	600 x 438 x 88
Net Weight (kgs)	17.1	21.5	29	41.2



TESTED TO UL 1778

X9 1KVA/1.5KVA/2KVA/3KVA Rack/Tower Online UPS Selection Guide

MODEL	Titan X9 1K	Titan X9 1KL	Titan X9 1.5K	Titan X9 1.5KL	Titan X9 2K	Titan X9 2KL	Titan X9 3K	Titan X9 3KL	
INPUT									
CAPACITY	VA	1000 VA	900 VA	1500 VA	1250 VA	2000 VA	1700 VA	3000 VA	2500 VA
	W	900 W	810 W	1350W	1125 W	1800 W	1530 W	2700 W	2250 W
Nominal Voltage	100*/110*/115*/120 VAC								
Rated Voltage Range	110-120 VAC								
Voltage Range	55-150 VAC ± 5%								
Frequency Range	40Hz – 70Hz								
Power Factor	0.99 @ Nominal Voltage (100% Load)								
OUTPUT									
Output Voltage	100*/110*/115*/120 VAC								
AC Voltage Regulation (Batt. Mode)	± 1%								
Frequency Range (Synchronized Range)	47 – 53 Hz or 57 – 63 Hz								
Frequency Range (Batt. Mode)	50 Hz ± 0.5% or 60Hz ± 0.5%								
Current Crest Ratio	5:1 (max.)								
Harmonic Distortion	2 % THD (Linear Load); 4 % THD (Non-linear load)								
Transfer Time	Line mode to Battery mode	Zero							
	Inverter to Bypass	4 ms (Typical)							
Waveform (Batt. Mode)	Pure Sinewave								
EFFICIENCY									
AC Mode	87%		88%		88%		89%		
Battery Mode	85%		86%		86%		87%		
ECO Mode	94%		95%		95%		97%		
BATTERY									
Battery Type	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries	
Numbers	2		3		4		6		
Typical Recharge Time	4 hours recover to 90% capacity		4 hours recover to 90% capacity		4 hours recover to 90% capacity		4 hours recover to 90% capacity		
Charging Current (max.)	1.0 A	4 A or 6 A	1.0 A	4 A or 6 A	1.0 A	4 A or 6 A	1.0 A	4 A or 6 A	
Charging Voltage	27.4 VDC ± 1%		41.1 VDC ± 1%		54.7 VDC ±1%		82.1 VDC ±1%		
INDICATORS									
LCD Display	UPS Status, Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator								
ALARM									
Battery Mode	Sounding every 4 seconds								
Low Battery	Sounding every second								
Overload	Sounding twice every second								
Fault	Continuously sounding								
PHYSICAL									
Dimension, D x W x H (mm)	380 x 438 x 88 [2U]		480 x 438 x 88 [2U]		480 x 438 x 88 [2U]		600 x 438 x 88 [2U]		
Net Weight (kgs)	13.2	9.2	18.9	11.7	21.4	12.5	29.6	15.1	
ENVIRONMENT									
Humidity	20-90 % RH @ 0- 40°C (Non-condensing)								
Noise Level	Less than 50dBA @ 1 Meter								
MANAGEMENT									
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008/7, Linux, Unix, and MAC								
Optional SNMP	Power management from SNMP manager and web browser								

**Derate capacity to 95% when the output voltage is adjusted to 115VAC, derate capacity to 90% when the output voltage is adjusted to 110VAC and derate capacity to 80% when the output voltage is adjusted to 100VAC.

** Product specifications are subject to change without further notice

Titan X9

X9 Battery Pack

Capacity	1K	1.5 K	2 K	3 K
Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V 9 Ah
Battery Number	4 pcs	6 pcs	8 pcs	12 pcs
Dimension (DxWxH)	380 x 438 x 88		480 x 438 x 88	600 x 438 x 88
Net Weight (kgs)	17.1	21.5	29	41.2



X9 1KVA/1.5KVA/2KVA/3KVA Rack/Tower Online UPS Selection Guide

MODEL	Titan X9 1K	Titan X9 1KL	Titan X9 1.5K	Titan X9 1.5KL	Titan X9 2K	Titan X9 2KL	Titan X9 3K	Titan X9 3KL	
PHASE	Single phase with ground								
CAPACITY	VA	1000 VA	900 VA	1500 VA	1250 VA	2000 VA	1700 VA	3000 VA	2500 VA
	W	900 W	810 W	1350 W	1125 W	1800 W	1530 W	2700 W	2250 W
INPUT									
Nominal Voltage	100*/110*/115*/120 VAC								
Rated Voltage Range	100-120 VAC								
Voltage Range	55-150 VAC ± 5%								
Frequency Range	50Hz/60 Hz								
Power Factor	0.99 @ Nominal Voltage (100% Load)								
OUTPUT									
Output Voltage	100*/110*/115*/120 VAC								
AC Voltage Regulation (Batt. Mode)	± 1%								
Frequency Range (Synchronized Range)	47 ~ 53 Hz or 57 ~ 63 Hz								
Frequency Range (Batt. Mode)	50 Hz ± 0.5% or 60Hz ± 0.5%								
Current Crest Ratio	5:1 (max.)								
Harmonic Distortion	2 % THD (Linear Load); 4 % THD (Non-linear load)								
Transfer Time	Line mode to Battery mode	Zero							
	Inverter to Bypass	4 ms (Typical)							
Waveform (Batt. Mode)	Pure Sinewave								
EFFICIENCY									
AC Mode	87%		88%		88%		89%		
Battery Mode	85%		86%		86%		87%		
ECO mode	94%		95%		95%		97%		
BATTERY									
Battery Type	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries	12 V / 9 Ah	Depending on the capacity of external batteries	
Numbers	2		3		4		6		
Typical Recharge Time	4 hours recover to 90% capacity		4 hours recover to 90% capacity		4 hours recover to 90% capacity		4 hours recover to 90% capacity		
Charging Current (max.)	1.0 A	4A or 6A	1.0 A	4A or 6A	1.0 A	4A or 6A	1.0 A	4A or 6A	
Charging Voltage	27.4 VDC ± 1%		41.1 VDC ± 1%		54.7 VDC ± 1%		82.1 VDC ± 1%		
INDICATORS									
LCD Display	UPS status, Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator								
ALARM									
Battery Mode	Sounding every 4 seconds								
Low Battery	Sounding every second								
Overload	Sounding twice every second								
Fault	Continuously sounding								
PHYSICAL									
Dimension, D x W x H (mm)	380 x 438 x 88 [2U]		480 x 438 x 88 [2U]		480 x 438 x 88 [2U]		600 x 438 x 88 [2U]		
Net Weight (kgs)	13.2	9.2	18.9	11.7	21.4	12.5	29.6	15.1	
ENVIRONMENT									
Humidity	20-90 % RH @ 0- 40°C (Non-condensing)								
Noise Level	Less than 50dBA @ 1 Meter								
MANAGEMENT									
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix, and MAC								
Optional SNMP	Power management from SNMP manager and web browser								

**Derate capacity to 95% when the output voltage is adjusted to 115VAC, derate capacity to 90% when the output voltage is adjusted to 110VAC and derate capacity to 80% when the output voltage is adjusted to 100VAC.
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SCENARIUM

Titan X9

X9 Battery Pack

Capacity	6K	10K
Battery Type	12/7Ah	12 V 9 Ah
Battery Number	20 pcs	20 pcs
Dimension (DxWxH)	580 x 438 x 133	580 x 438 x 133
Net Weight (kgs)	57	63



TESTED TO UL 1778

X9 6KVA/10KVA Rack/Tower Online UPS Selection Guide

MODEL	Titan X9 6K	Titan X9 ISO 6K	Titan X9 10K	Titan X9 ISO 10K	
PHASE	Single phase with ground				
CAPACITY	6000 VA / 5400 W		10000 VA / 9000 W		
INPUT					
Nominal Voltage	200/208/220/230/240 VAC				
Voltage Range	110-300 VAC ± 3% at 50% load 176-300 VAC ± 3% at 100% load				
Frequency Range	46-54 Hz or 56-64 Hz				
Power Factor	0.99 @ 100% load				
OUTPUT					
Nominal Voltage	200/208/220/230/240 VAC	104 VAC x 2 / 208 VAC or 110 VAC x 2 / 220 VAC or 115 VAC x 2 / 230 VAC or 120 VAC x 2 / 240 VAC	200/208/220/230/240 VAC	104 VAC x 2 / 208 VAC or 110 VAC x 2 / 220 VAC or 115 VAC x 2 / 230 VAC or 120 VAC x 2 / 240 VAC	
AC Voltage Regulation	± 1%	± 3%	± 1%	± 3%	
Frequency Range(Synchronized Range)	46-54 Hz or 56-64 Hz				
Frequency Range(Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz				
Current Crest Ratio	3:1 (max.)				
Harmonic Distortion	2 % THD (Linear Load), 4 % THD (Non-linear Load)	3.5 % THD (Linear Load), 7 % THD (Non-linear Load)	2 % THD (Linear Load), 4 % THD (Non-linear Load)	3.5 % THD (Linear Load), 7 % THD (Non-linear Load)	
Transfer Time	Line mode to Battery mode	Zero			
	Battery mode to Line mode	Zero			
	Inverter to Bypass	Zero			
	Bypass to Inverter	Zero			
Waveform (Batt. Mode)	Pure Sinewave				
EFFICIENCY					
Line Mode	90%	84%	90%	84%	
Battery Mode	88%	82%	88%	82%	
ECO Mode	96%	87%	96%	87%	
BATTERY					
Standard Model	Nominal Voltage	240 VDC			
	Battery Type	12 V / 7 Ah	12 V / 9 Ah		
	Numbers	20 (18-20 pcs adjustable)*	20 (18-20 pcs adjustable)*		
	Typical Recharge Time	7 hours recover to 90% capacity		9 hours recover to 90% capacity	
	Charging Current (max.)	1.0 A	1.0 A		
Long Run Model	Float Charging Voltage	273 VDC (based on battery numbers at 20 pcs)			
	Battery Type and Numbers	Depending on applications			
	Charging Current (max.)	4.0 A	4.0 A		
	Float Charging Voltage	273 VDC (based on battery numbers at 20 pcs)			
	INDICATORS				
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				
ALARM					
Battery Mode	Sounding every 4 seconds				
Low Battery	Sounding every second				
Overload	Sounding twice every second				
Fault	Continuously sounding				
PHYSICAL					
Standard Model	Dimension, D x W x H(mm)	UPS unit: 580 x 438 x 133 [3U] Battery pack: 580 x 438 x133 [3U]	UPS unit: 580 x 438 x 133 Battery pack: 580 x 438 x 133 ISO bank: 580 x 438 x 133	UPS unit: 668 x 438 x 133 [3U] Battery pack: 580 x 438 x133 [3U]	UPS unit: 668 x 438 x 133 Battery pack: 580 x 438 x 133 ISO bank: 668 x 438 x 133
	Net Weight (kgs)	UPS unit: 20 Battery pack: 57	UPS unit: 20 Battery pack: 57 ISO bank: 67	UPS unit: 23.5 Battery pack: 63	UPS unit: 23.5 Battery pack: 63 ISO bank: 90
long-run Model	Dimension, D x W x H(mm)	580 x 438 x 133	UPS unit: 580 x 438 x 133 ISO bank: 580 x 438 x 133	668 x 438 x 133	UPS unit: 668 x 438 x 133 ISO bank: 668 x 438 x 133
	Net Weight (kgs)	20	UPS unit: 20 ISO bank: 67	23.5	UPS unit: 23.5 ISO bank: 90
ENVIRONMENT					
Operation Humidity	0-95 % RH @ 0-40°C (Non-condensing)				
Noise Level	Less than 58dBA @ 1 Meter		Less than 60dBA @ 1 Meter		
MANAGEMENT					
Smart RS-232 / USB	Supports Windows ² - 2000/2003/XP/Vista/2008, Windows ² - 7/8, Linux, Unix, and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

*When using internal batteries from 18-19, the unit will de-rate according to below formula: P=P_{rating} x N/20

** If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

* L means long-run model

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Tel : 224-3975 637-8101

Calle Marchand N°558 San Borja, Lima

E-mail : jose@centralionperu.com

Web : centralionperu.com



CENTRALION
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