

Titan One 1KVA/1.5KVA/2KVA/3KVA



Titan One 2K
Titan One 3K

Titan One 1K
Titan One 1.5K

- True double-conversion
- Output power factor 1
- Input power factor correction
- 50/60Hz Frequency Converter Mode
- ECO mode energy saving
- Emergency power off (EPO) function
- Provides over voltage cut-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger up to 8A/12A capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Smart battery charger design to optimize battery performance
- Generator compatible
- Optional HID Power Device USB Port

Titan One 1KVA/1.5KVA/2KVA/3KVA Online UPS Selection Guide

MODEL	Titan One 1K		Titan One 1.5K		Titan One 2K		Titan One 3K	
PHASE	Single phase with ground							
CAPACITY*	1000 VA / 1000 W		1500 VA / 1500W		2000 VA / 2000 W		3000 VA / 3000 W	
INPUT								
Nominal Voltage	100/110/115/120 /127 VAC or 200/208/220/230/240 VAC							
Voltage Range	55 - 150 VAC ± 3 % or 110 - 300 VAC ± 3 % at 50%load 80 - 150 VAC ± 3 % or 160 - 300 VAC ± 3 % at 100% load							
Frequency Range	40Hz - 70Hz							
Power Factor	≥ 0.99 @ nominal voltage (100% load)							
THDi%	≤ 5%							
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 57-63Hz							
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz							
Current Crest Ratio	3:1							
Harmonic Distortion	≤ 2% THD (Linear Load), ≤ 4 % THD (Non-linear Load)							
Transfer Time	AC to DC							
	Zero							
	Inverter to Bypass							
4 ms (Typical)								
ECO to Battery Mode								
8 ms (Typical), 10 ms (max)								
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
Line Mode	≥ 89% @ battery fully charged				≥ 91% @ battery fully charged			
ECO Mode	≥ 96% @ battery fully charged							
Battery Mode	≥ 88%				≥ 90%			
BATTERY								
Battery Type	12 V / 9AH	12 V / 7AH	12 V / 9AH	12 V / 9AH	12 V / 7AH	12 V / 9AH	12 V / 7AH	12 V / 7AH
Numbers	2	3	3	4	6	6	6	8
Typical Recharge Time	3 hours recover to 95% capacity for internal battery@ 2A charging current							
Charging Current	100/110/115/120 /127 VAC models: default 2A, max. 8A adjustable				200/208/220/230/240 VAC models: default 2A, max. 12A adjustable			
Charging Voltage	27.4VDC ± 1%	41.1VDC ± 1%	41.1VDC ± 1%	54.8VDC ± 1%	82.2VDC ± 1%	82.2VDC ± 1%	82.2VDC ± 1%	109.6 VDC ± 1%
INDICATORS								
LCD Panel	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Faultindicator							
ALARM								
Battery Mode	Sounding every 5 seconds							
Low Battery	Sounding every 2 seconds							
Overload	Sounding every second							
Fault	Continuously sounding							
PHYSICAL								
Dimension, D x W x H (mm)	397 x 145 x 220				421 x 190 x 318			
Net Weight (without battery) (kgs)	6.6	6.6	7	9.9	9.9	12.3	12.3	12.3
Net Weight (w/ built-in battery) (kgs)	11.7	13	14.6	20.3	23.2	28	28	33
ENVIRONMENT								
Humidity	0-95 % RH @ 0- 45°C (non-condensing)							
Noise Level	Less than 50dBA @ 1 Meter with Fan speed control							
MANAGEMENT								
Smart RS-232 or USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							
STANDARD								
EMC/Safety	EMC EN62040-2 C2 for CE models							

*Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC. Product specifications are subject to change without further notice.

Titan One Rack/Tower 1KVA/1.5KVA/2KVA/3KVA



- True double-conversion
- Output power factor 1
- Output voltage regulation < 1%
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Hot swappable battery design
- ECO mode energy saving
- Provides over voltage cut-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger upto 8A/12A capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel
- Optional HID Power Device USB Port

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

MODEL	Titan One RT 1K		Titan One RT 1.5K		Titan One RT 2K		Titan One RT 3K	
PHASE	Single phase with ground							
CAPACITY*	1000 VA / 1000 W		1500 VA / 1500 W		2000 VA / 2000 W		3000 VA / 3000 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% @ 50% load 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% load							
Frequency Range	40 Hz ~ 70 Hz							
Power Factor	≥ 0.99 @ nominal voltage (100% load)							
Harmonic Distortion(THDi)	≤ 5% @ nominal input voltage							
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)	57 ~ 63 Hz or 47 ~ 53 Hz							
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz							
Current Crest Ratio	3:1 (max.)							
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)							
Transfer Time	AC Mode to Batt. Mode		Zero					
	Inverter to Bypass		4 ms (Typical)					
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
AC Mode	≥ 89% @ full charged battery				≥ 91% @ full charged battery			
ECO Mode	≥ 96% @ full charged battery							
Battery Mode	≥ 88%				≥ 90%			
BATTERY								
Battery Type	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah
Numbers	2	3	3	4	6	6	6	6
Typical Recharge Time	3 hours recover to 95% capacity for internal battery @ 2A charging current							
Charging Current	100/110/115/120 /127 VAC models: default 2A, max. 8A adjustable 200/208/220/230/240 VAC models: default 2A, max. 12A adjustable					Default: 2A, Max: 8A adjustable		
Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%	54.8 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%
INDICATORS								
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions							
ALARM								
Battery Mode	Sounding every 5 seconds							
Low Battery	Sounding every 2 seconds							
Overload	Sounding every second							
Fault	Continuously sounding							
PHYSICAL								
Dimension, DxW xH(mm)	410 x 438 x 88		410 x 438 x 88		510 x 438 x 88		630 x 438 x 88	
Net Weight (without battery) (kgs)	6.6	7.8	8.1	9.4	10.6	12.4	12.4	12.4
Net Weight (w/built-int battery) (kgs)	11.6	14.1	15.5	19.5	23.3	27.5	27.5	27.5
ENVIRONMENT								
Humidity	0-95 % RH @ 0- 45°C (non-condensing)							
Noise Level	Less than 50dB @ 1 Meter							
MANAGEMENT								
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							
STANDARD								
EMC/safety	EMC EN62040-2 C2 for CE models							

*Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC.
Product specifications are subject to change without further notice

Titan One_{6KVA/10KVA}

ONLINE UPS



Titan One 6K/10K

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- High efficiency up to 94%
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy
- Adjustable charging current via LCD panel
- Supporting Hot Standby function

Titan One Online UPS Selection Guide

MODEL		Titan One 6K	Titan One 10K
PHASE		1 phase in / 1 phase out	
CAPACITY		6000 VA / 6000 W	10000 VA / 10000 W
INPUT			
Nominal Voltage		208/220/230/240 VAC	
Voltage Range		110-300VAC ± 3 % at 50% load ; 176-300VAC ± 3 % at 100% load	
Frequency Range		46-54 Hz or 56-64 Hz	
Phase		Single phase with ground	
Power Factor		≥ 0.99 @ fullload	
THDi		< 4% @ 100% Load	
OUTPUT			
Output Voltage		208/220/230/240 VAC	
AC Voltage Regulation (Batt. Mode)		± 1%	
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		≤ 1 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)		Pure Sinewave	
Overload	AC Mode	100%-110% 10min ; 110%-130%: 1min ; >130% : 1sec	
	Battery Mode	100%-110%: 30sec ; 110%-130%: 10sec ; >130% : 1sec	
EFFICIENCY			
AC Mode		94%	
Battery Mode		91%	
BATTERY			
Standard Model	Battery Type	12 V / 7 Ah	12 V / 9 Ah
	Numbers	16	
	Typical Recharge Time	5 hours recover to 90% capacity	
	Charging Current (max.)	1.4 A	
	Charging Voltage	218.4 VDC ± 1%	
Long-run Model	Battery Type	Depending on applications	
	Numbers	16-20**	
	Charging Current (max.)	4.0 A	
	Charging Voltage	(13.65VDC x battery number) ± 1%	
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 2 seconds	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Standard Model	Dimension, DxWxH (mm)	369 x 190 x 688	442 x 190 x 688
	Net Weight (kgs)	54	66
Long-run Model	Dimension, DxWxH (mm)	369 x 190 x 318	442 x 190 x 318
	Net Weight (kgs)	13	16
ENVIRONMENT			
Operating Humidity		0-95 % RH @ 0- 45°C (Non-condensing)	
Noise Level		Less than 50dB @ 1Meter	Less than 50dB @ 1Meter
MANAGEMENT			
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC	
Optional SNMP		Power management from SNMP manager and web browser	

* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.

**When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9

***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.

Product specifications are subject to change without further notice.

Titan One Rack/Tower 6KVA/10KVA



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy up to 4 units
- Adjustable charging current via LCD panel
- Supporting Hot Standby function

ONLINE UPS

Titan One 6KVA/10KVA Rack/Tower Online UPS Selection Guide

MODEL		Titan One 6K RT		Titan One 10K RT	
PHASE		1 phase in / 1 phase out			
CAPACITY*		6000 VA / 6000 W		10000 VA / 10000 W	
INPUT					
Nominal Voltage		208/220/230/240 VAC			
Voltage Range		110-300VAC ± 3 % at 50% load 176-300VAC ± 3 % at 100% load			
Frequency Range		46-54 Hz Ⓞ 50Hz / 56-64 Hz Ⓞ 60Hz			
Power Factor		≥ 0.99 @ fullload			
THDi		< 4% @ 100% Load			
OUTPUT					
Output Voltage		208*/220/230/240 VAC		208*/220/230/240 VAC	
AC Voltage Regulation		± 1%			
Frequency Range (Synchronized Range)		46-54 Hz Ⓞ 50Hz / 56-64 Hz Ⓞ 60Hz			
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (max.)			
Harmonic Distortion		≤ 1% THD (Linear Load), ≤ 4% THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)		Pure Sinewave			
Overload	AC Mode	100%-110%: 10min. 110%-130%: 1min. >130%: 1sec			
	Battery Mode	100%-110%: 30sec. 110%-130%: 10sec. >130%: 1sec			
EFFICIENCY					
AC Mode		94%		94%	
ECO Mode		98.5%		98.5%	
Battery Mode		92%		92%	
BATTERY					
Standard Model	Battery Type	12 V / 7 AH		12 V / 9 AH	
	Numbers	16	20	16	20
	Typical Recharge Time	5 hours recover to 90% capacity			
	Charging Current (max.)	1.4 A			
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
Long-run Model	Battery Type	Depending on applications			
	Numbers	16-20**			
	Charging Current (max.)	4.0 A			
	Charging Voltage	(13.65VDC x battery number) ± 1%			
INDICATORS					
LCD Panel		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: 610x438x88 [2U] Battery Pack: 715x438x88 [2U]	UPS Unit: 610x438x88 [2U] Battery Pack: 600x438x133 [3U]	UPS Unit: 610x438x88 [2U] Battery Pack: 715x438x88 [2U]	UPS Unit: 610x438x88 [2U] Battery Pack: 600x438x133 [3U]
	Net Weight (kgs)	UPS Unit: 17 Battery Pack: 48	UPS Unit: 17 Battery Pack: 57	UPS Unit: 20 Battery Pack: 53	UPS Unit: 20 Battery Pack: 63
Long-run Model	Dimension, D x W x H (mm)	610 x 438 x 88 [2U]		610 x 438 x 88 [2U]	
	Net Weight (kgs)	17		20	
ENVIRONMENT					
Operating Humidity		0-95 % RH @ 0- 45°C (non-condensing)			
Noise Level		Less than 50dB @ 1 Meter		Less than 50dB @ 1 Meter	
MANAGEMENT					
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC			
Optional SNMP		Power management from SNMP manager and web browser			

* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.
 **When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9
 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.
 Product specifications are subject to change without further notice.