



1KVA - 3KVA

Titan ONE+ Series

True Double Conversion Online UPS

The Titan ONE+ series is a tower type design with a true double conversion online single-phase UPS system. This series comes with an output power factor of 1.0. A comprehensive LCD display allows users to easily monitor and access their UPS status.

The UPS systems come standard with USB and RS-232 communication ports, as well as an intelligent slot for additional adapters, protocol converters, and relay contact cards. An Emergency Power Off (EPO) function is available for the 6KVA-10KVA models, which allows UPS to be shut off in the event of an emergency.

The Titan ONE+ series system is designed to provide clean, high-quality power to critical devices such as sensitive networks, small computer centers, servers, medical equipment, telecom applications, and industrial applications.

Features

- User Friendly LCD Display
- Tower Type Design
- Unity Output Power Factor - 1.0
- Wide Input Range (110V - 300V)
- Programmable Power Management Outlets
- ECO Mode Function for Energy Saving
- Emergency Power Off (EPO) Function
- Smart Battery Charger Design to Optimize Battery Performance
- Generator Compatible
- Optional N+X Parallel Redundancy
- Comes with RS 232 & USB Port, SNMP Slot and Power Management Software



Telecommunication System



Data Center



Laboratories Equipment



Precision Instruments



6KVA - 10KVA

Rear Panel

1KVA - 3KVA



Titan ONE+ 1K



Titan ONE+ 2K



Titan ONE+ 3K

- 1. AC Input
- 2. Output Socket
- 3. Cooling Fan
- 4. Output Terminal

- 5. USB Communication Port
- 6. RS-232 Communication Port
- 7. Intelligent Slot
- 8. Network/Fax/Modem Surge Protection (RJ45)
- 9. Emergency Power Off (EPO) Connector

Rear Panel

6KVA - 10KVA

- 1. Input/Output Terminal
- 2. Input Breaker
- 3. Cooling Fan
- 4. Maintenance Bypass Switch (Optional)
- 5. USB Communication Port
- 6. RS-232 Communication Port
- 7. Intelligent Slot
- 8. External Battery Connector
- 9. Emergency Power Off (EPO) Connector
- 10. Parallel Connection



Titan ONE+ 6KS / 10KS



Titan ONE+ P 6K / 10K

Technical Specification:

MODEL		Titan ONE+ 1K/1KS	Titan ONE+ 2K/2KS	Titan ONE+ 3K/3KS
CAPACITY (KVA/WATTS)		1KVA / 1000W	2KVA / 2000W	3KVA / 3000W
INPUT				
NOMINAL VOLTAGE		200/208/220/230/240VAC		
VOLTAGE RANGE		110 - 300VAC (Based on load at 50%) 160 - 280VAC (Based on load at 100%)		
FREQUENCY RANGE		40Hz ~ 70Hz		
PHASE		Single Phase with Ground		
INPUT POWER FACTOR		≥ 0.99 @ Nominal Voltage (100% Load)		
OUTPUT				
OUTPUT VOLTAGE		200/208/220/230/240VAC		
OUTPUT POWER FACTOR		1.0		
VOLTAGE REGULATION (Batt. Mode)		± 1%		
FREQUENCY RANGE (Synchronized Range)		47Hz ~ 53Hz or 57Hz ~ 63Hz		
FREQUENCY RANGE (Batt. Mode)		50Hz ± 0.1Hz or 60Hz ± 0.1Hz		
CURRENT CREST RATIO		3 : 1		
TOTAL HARMONIC DISTORTION (THDv)		≤ 2% @ Linear Load ; ≤ 4% @ Non-Linear Load		
WAVEFORM		Pure Sinewave		
TRANSFER TIME (AC to DC)		Zero		
TRANSFER TIME (Inverter to Bypass)		4 ms (Typical)		
OUTPUT SOCKET		2 x British Socket	4 x British Socket	
EFFICIENCY				
AC MODE		≥ 89%	≥ 91%	
ECO MODE		≥ 96%		
BATTERY MODE		≥ 88%	≥ 90%	
BATTERY				
STANDARD MODEL	BATTERY TYPE	12V 7AH	12V 7AH	12V 9AH
	BATTERY NUMBERS	3	6	6
	BACKUP TIME	20 - 30 minutes depending on load		
	RECHARGE TIME	3 Hours to 95% capacity for internal battery @ 2A charging current		
	CHARGING CURRENT	2.0A - 12A (Adjustable)		
	CHARGING VOLTAGE	41.1 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%
KS MODEL	BATTERY TYPE	Depending on the capacity of the external batteries		
	BATTERY NUMBERS	3	6	6
	BACKUP TIME	Depending on the capacity of the external batteries		
	CHARGING CURRENT	1.0A / 2.0A / 4.0A / 6.0A (Adjustable)		
	CHARGING VOLTAGE	41.0 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%
STATUS INDICATION				
LCD DISPLAY		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault		
AUDIBLE ALARM		Battery Mode, Low Battery, UPS Fault, Overload		
COMMUNICATION				
POWER MANAGEMENT SOFTWARE		Support Window Family, Linux & MAC		
INTERFACE		USB & RS-232 Communication Port		
INTELLIGENT SLOT		AS 400 / SNMP (Optional)		
SURGE PROTECTION & FILTERING				
SPIKE, SURGE & LIGHTNING PROTECTION		Yes		
OVERLOAD, SHORT CIRCUIT PROTECTION		Yes		
PHYSICAL				
OPERATING ENVIRONMENT		0-40°C, 20 - 95% Relative Humidity (Non-Condensing)		
NOISE LEVEL		< 50dBA @ 1 Meter		
STANDARD MODEL	DIMENSION (DxWxH)mm	397 x 145 x 220	421 x 190 x 318	
	WEIGHT (KG)	13	23.2	28
KS MODEL	DIMENSION (DxWxH)mm	397 x 145 x 220	421 x 190 x 318	
	WEIGHT (KG)	6.6	9.9	12.3
SAFETY STANDARD				
PROTECTION		IP 20		
UPS SAFETY		IEC/ EN 62040-1		
EMC		IEC/ EN 62040-2		
UPS PERFORMANCE TEST		VFI-SS-111 in accordance with IEC / EN 62040-3		
UPS COMPLIANCE		CE		
WARRANTY				
UPS WARRANTY		3 Years Full Warranty Include Parts & Labour. 2 Years Warranty for Battery		

*Specification subjects to change without prior notice





Technical Specification:

MODEL		Titan ONE+ 6K / 6KS	Titan ONE+ 10K / 10KS
CAPACITY (KVA/WATTS)		6KVA / 6000W	10KVA / 10,000W
INPUT			
NOMINAL VOLTAGE		200/208/220/230/240VAC	
VOLTAGE RANGE		110 - 300VAC (Based on load at 50%) 176VAC -300VAC (Based on load at 100%)	
FREQUENCY RANGE		46Hz ~ 54Hz or 56Hz ~ 64Hz	
PHASE		Single Phase with Ground	
INPUT POWER FACTOR		≥ 0.99 @ Nominal Voltage (100% Load)	
OUTPUT			
OUTPUT VOLTAGE		200/208/220/230/240VAC	
OUTPUT POWER FACTOR		1.0	
VOLTAGE REGULATION (Batt. Mode)		± 1%	
FREQUENCY RANGE (Synchronized Range)		46Hz ~ 54Hz or 56Hz ~ 64Hz	
FREQUENCY RANGE (Batt. Mode)		50Hz ± 0.1Hz or 60Hz ± 0.1Hz	
CURRENT CREST RATIO		3 : 1	
TOTAL HARMONIC DISTORTION (THDv)		≤ 1% @ Linear Load ; ≤ 4% @ Non-Linear Load	
WAVEFORM		Pure Sinewave	
TRANSFER TIME (AC to DC)		Zero	
TRANSFER TIME (Inverter to Bypass)		Zero	
OUTPUT SOCKET		Terminal Block	
EFFICIENCY			
AC MODE		94%	
ECO MODE		98.5%	
BATTERY MODE		91%	
BATTERY			
STANDARD MODEL	BATTERY TYPE	12V 7AH	12V 9AH
	BATTERY NUMBERS	20	
	BACKUP TIME	20 - 30 minutes depending on load	
	RECHARGE TIME	9 Hours to 90% capacity	
	CHARGING CURRENT	1.0A - 4.0A (Adjustable)	
	CHARGING VOLTAGE	273 VDC ± 1%	
KS MODEL	BATTERY TYPE	Depending on the capacity of the external batteries	
	BATTERY NUMBERS	16 - 20 (Adjustable)	
	BACKUP TIME	Depending on the capacity of the external batteries	
	CHARGING CURRENT	2.0A - 12A (Adjustable)	
	CHARGING VOLTAGE	218.4VDC ± 1% / 273 VDC ± 1%	
STATUS INDICATION			
LCD DISPLAY		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault	
AUDIBLE ALARM		Battery Mode, Low Battery, UPS Fault, Overload	
COMMUNICATION			
POWER MANAGEMENT SOFTWARE		Support Window Family, Linux & MAC	
INTERFACE		USB Port & Smart RS-232 Communication Port	
INTELLIGENT SLOT		AS400 / SNMP (Optional)	
EMERGENCY POWER OFF (EPO)		Yes	
SURGE PROTECTION & FILTERING			
SPIKE, SURGE & LIGHTNING PROTECTION		Yes	
OVERLOAD, SHORT CIRCUIT PROTECTION		Yes	
PHYSICAL			
OPERATING ENVIRONMENT		0-40°C, 20 - 90% Relative Humidity (Non-Condensing)	
NOISE LEVEL		< 55dB @ 1 Meter	< 58dB @ 1 Meter
STANDARD MODEL	DIMENSION (DxWxH)mm	UPS : 369 x 190 x 318 Battery Pack : 369 x 190 x 370	UPS : 442 x 190 x 318 Battery Pack: 442 x 190 x 370
	WEIGHT (KG)	UPS : 13 Battery Pack : 44	UPS : 17 Battery Pack : 50
KS MODEL	DIMENSION (DxWxH)mm	369 x 190 x 318	442 x 190 x 318
	WEIGHT (KG)	13	17
SAFETY STANDARD			
PROTECTION		IP 20	
UPS SAFETY		IEC/ EN 62040-1	
EMC		IEC/ EN 62040-2	
UPS PERFORMANCE TEST		VFI-SS-111 in accordance with IEC / EN 62040-3	
UPS COMPLIANCE		CE	
WARRANTY			
UPS WARRANTY		3 Years Full Warranty Include Parts & Labour. 2 Years Warranty for Battery	

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