

## Titan PRO Series

### True Double Conversion Online UPS

The Titan PRO series is a rackmount type design with a true double conversion online single-phase UPS system. This series comes with an output power factor of 0.9. High input power factor correction in the system to improve efficiency.

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.



### Features

- User Friendly LCD Display
- Rackmount Type Design
- Output Power Factor 0.9
- Wide Input Range (110V - 300V)
- Microprocessor Control Optimizes Reliability
- Input Power Factor Correction
- Converter Mode Available
- ECO Mode Function for Energy Saving (1K-3K Model Only)
- Emergency Power Off Function (EPO) (6K-10K Model Only)
- Adjustable Battery Numbers
- Generator Compatible
- Come with RS232, USB Port, SNMP Slot and Power Management Software



Recording Studio



Laboratory Equipments



ATM



Banking Industry



1KVA - 3KVA (2U)



6KVA (2U)



10KVA (3U)

## Rear Panel 1KVA - 3KVA



Titan PRO 1KR



Titan PRO 1KRS



Titan PRO 2KR



Titan PRO 2KRS



Titan PRO 3KR

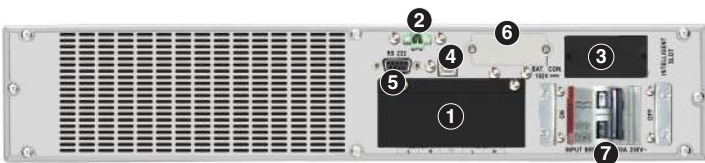


Titan PRO 3KRS

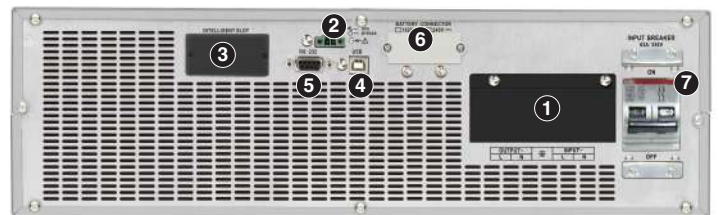
- 1. IEC Output Socket
- 2. Input Socket
- 3. Intelligent Slot
- 4. USB Communication Port

- 5. RS 232 Communication Port
- 6. Circuit Breaker
- 7. Terminal Block
- 8. External Battery Connector

## Rear Panel 6KVA - 10KVA



Titan PRO 6KRS



Titan PRO 10KRS

- 1. Input/Output Terminal
- 2. Emergency Power Off (EPO)
- 3. Intelligent Slot
- 4. USB Communication Port

- 5. RS 232 Communication Port
- 6. External Battery Connector
- 7. Input Breaker

\*Specification subjects to change without prior notice

## Technical Specification:

MODEL		Titan PRO 1KR / KRS	Titan PRO 2KR/2KRS	Titan PRO 3KR/3KRS
CAPACITY ( KVA/WATTS)		1KVA / 900W	2KVA / 1800W	3KVA / 2700W
<b>INPUT</b>				
NOMINAL VOLTAGE		200/208/220/230/240VAC		
VOLTAGE RANGE		120 - 300VAC (Based on load at 50%) 180 - 300VAC (Based on load at 100%)		
FREQUENCY RANGE		40Hz ~ 70Hz		
PHASE		Single Phase with Ground		
INPUT POWER FACTOR		≥ 0.99 @ Nominal Voltage (100% Load)		
<b>OUTPUT</b>				
OUTPUT VOLTAGE		200/208/220/230/240VAC		
OUTPUT POWER FACTOR		0.9		
VOLTAGE REGULATION (Batt. Mode)		± 1%		
FREQUENCY RANGE (Synchronized Range)		47Hz ~ 53Hz or 57Hz ~ 63Hz		
FREQUENCY RANGE (Batt. Mode)		50Hz ± 0.25Hz or 60Hz ± 0.3Hz		
CURRENT CREST RATIO		3 : 1		
TOTAL HARMONIC DISTORTION (THDv)		≤ 3% @ Linear Load ; ≤ 6% @ Non-Linear Load		
WAVEFORM		Pure Sinewave		
TRANSFER TIME (AC to DC)		Zero		
TRANSFER TIME (Inverter to Bypass)		4 ms (Typical)		
STANDARD MODEL	OUTPUT SOCKET	6 x IEC Socket	6 x IEC Socket	6 x IEC Socket + 1 x Terminal Block
KS MODEL		6 x IEC Socket		6 x IEC Socket + 1 Terminal Block
<b>EFFICIENCY</b>				
AC MODE		88%	89%	90%
BATTERY MODE		83%	87%	88%
<b>BATTERY</b>				
STANDARD MODEL	BATTERY TYPE	12V 9AH	12V 9AH	12V 9AH
	BATTERY NUMBERS	2	4	6
	BACKUP TIME	20 - 30 minutes depending on load		
	RECHARGE TIME	4 Hours to 90% capacity		
	CHARGING CURRENT	1.0A (Max)		
	CHARGING VOLTAGE	27.4 VDC ± 1%	54.7 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%
<b>STATUS INDICATION</b>				
LCD DISPLAY		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault		
AUDIBLE ALARM		Battery Mode, Low Battery, UPS Fault, Overload		
<b>COMMUNICATION</b>				
POWER MANAGEMENT SOFTWARE		Support Window Family, Linux & MAC		
INTERFACE		USB & RS-232 Communication Port		
INTELLIGENT SLOT		AS 400 / SNMP (Optional)		
<b>SURGE PROTECTION &amp; FILTERING</b>				
SPIKE, SURGE & LIGHTNING PROTECTION		Yes		
OVERLOAD, SHORT CIRCUIT PROTECTION		Yes		
<b>PHYSICAL</b>				
OPERATING ENVIRONMENT		0-40°C, 20 - 90% Relative Humidity (Non-Condensing)		
NOISE LEVEL		< 50dB @ 1 Meter		
STANDARD MODEL	DIMENSION (DxWxH)mm	310 x 438 x 88 (2U)	410 x 438 x 88 (2U)	630 x 438 x 88 (2U)
	WEIGHT (KG)	12	19	29.3
KS MODEL	DIMENSION (DxWxH)mm	310 x 438 x 88 (2U)	410 x 438 x 88 (2U)	410 x 438 x 88 (2U)
	WEIGHT (KG)	9	12	14.2
<b>SAFETY STANDARD</b>				
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		
<b>WARRANTY</b>				
UPS WARRANTY		3 Years Full Warranty Include Parts & Labour. 2 Years Warranty for Battery		

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## Technical Specification:

MODEL		Titan PRO 6KR / 6KRS	Titan PRO 10KR / 10RKS
CAPACITY (KVA/WATTS)		6KVA / 5400W	10KVA / 9000W
<b>INPUT</b>			
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)	
<b>OUTPUT</b>			
OUTPUT VOLTAGE		200/208/220/230/240VAC	
OUTPUT POWER FACTOR		0.9	
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)		≤ 3% @ Linear Load ; ≤ 5% @ Non-Linear Load	
WAVEFORM		Pure Sinewave	
TRANSFER TIME (AC to DC)		Zero	
TRANSFER TIME (Inverter to Bypass)		Zero	
OUTPUT SOCKET		Terminal Block	
<b>EFFICIENCY</b>			
AC MODE		>92%	>93%
BATTERY MODE		>90%	>91%
<b>BATTERY</b>			
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 / 2.0A (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	1.0A / 2.0A / 4.0A / 6.0A (Adjustable, 6A is only available for 16pcs batteries)	
	CHARGING VOLTAGE	218.4VDC ± 1% / 273 VDC ± 1%	
<b>STATUS INDICATION</b>			
LCD DISPLAY		Load Level, Battery Level, AC Mode, Battery Mode, Bypass Mode, UPS Fault	
AUDIBLE ALARM		Battery Mode, Low Battery, UPS Fault, Overload	
<b>COMMUNICATION</b>			
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	
<b>SURGE PROTECTION &amp; FILTERING</b>			
SPIKE, SURGE & LIGHTNING PROTECTION		Yes	
OVERLOAD, SHORT CIRCUIT PROTECTION		Yes	
<b>PHYSICAL</b>			
OPERATING ENVIRONMENT		0-40°C, 0 - 95% Relative Humidity (Non-Condensing)	
NOISE LEVEL		< 55dB @ 1 Meter	< 58dB @ 1 Meter
STANDARD MODEL	DIMENSION (DxWxH)mm	UPS : 530 x 438 x 88 (2U) Battery Pack : 605 x 438 x 133 (3U)	UPS : 580 x 438 x 133 (3U) Battery Pack: 605 x 438 x 133 (3U)
	WEIGHT (KG)	UPS : 15 Battery Pack : 61	UPS : 18 Battery Pack : 61
KS MODEL	DIMENSION (DxWxH)mm	530 x 438 x 88 (2U)	580 x 438 x 133 (3U)
	WEIGHT (KG)	15	18
<b>SAFETY STANDARD</b>			
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	
<b>WARRANTY</b>			
UPS WARRANTY		3 Years Full Warranty Include Parts & Labour. 2 Years Warranty for Battery	

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