



## Titan Innova Series

High Power Double Conversion  
Online UPS  
1KVA - 20KVA

- DSP Microprocessor controlled UPS
- True online Double Conversion sinewave UPS
- High input power factor > 0.99
- High performance with high efficiency
- LCD display and audible alarm
- Transformerless design reduce footprints
- N + X (4x) parallel redundant and capacity expansion for 6K to 20K
- Full communication interface connectivity - USB, RS232, dry contact, EPO & intelligent slot
- Built-in maintenance bypass for 6KVA UPS onwards
- Extended backup time capability (KS model)



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# Titan Innova Series

## Technical Specification

SERIES		TITAN INNOVA						
MODEL	1K/KS	2K/KS	3K/KS	6K/KS	10K/KS	3C10K/KS	3C20K/KS	
CAPACITY	1000VA/800W	2000VA/1600W	3000VA/2400W	6000VA/5400W	10000VA/9000W	10000VA/9000W	20000VA/18000W	
<b>INPUT</b>								
Nominal	230 VAC							
Voltage Range	110-300 VAC			176-276 VAC		110-276 VAC for single phase input 190-478 VAC for three phase input		
Frequency	45 Hz ~ 55 Hz or 54 ~ 66 Hz							
Power Factor	> 0.99					> 0.99 @ 100% load		
<b>OUTPUT</b>								
Nominal	200 / 208 / 220 / 230 / 240 VAC			208 / 220 / 230 / 240 VAC		200 / 208 / 220 / 230 / 240 VAC		
Regulation	+/- 2%			< 1%				
Transient Response	< 10%			< 9% (for 0-100% - 0%, R)		≤ 7% (for 0-100% - 0%, R)		
Crest Factor	3 : 1							
Harmonic Distortion	< 4% (Linear load), < 6% (Non-linear load)	< 4% (Linear load), < 7% (Non-linear load)			< 2% (Linear load), < 5% (Non-linear load)			
Overload (Line Mode)	< 125% for 5 mins, < 150% for 30 sec, > 150% for 0.5 sec to bypass/shutdown (inverter)			< 125% for 2 mins, < 150% for 30 sec, > 150% for 1.0 sec to bypass		5 mins @ 100% - 110% / 1 min @ 110% - 130% (backup mode - 10s @ 130% - 150% / 2s @ > 150%)		
Waveform	Pure sinewave							
<b>EFFICIENCY</b>								
AC Mode	> 85%	> 86%		> 92%		> 94% @ full load and battery fully charged		
Battery Mode	> 83%			> 92%		> 93% @ full load (12 VDC battery)		
ECO Mode	> 97%					> 98% @ full load and battery fully charged		
<b>BATTERY</b>								
Standard Model								
Battery Type	12V 7AH			12V 9AH		12V 7AH	12V 9AH	
Quantity	3	8		20		24pcs x 2 strings		
Typical Recharge Time	< 5 hours recover to 90% capacity					< 3 hours recover to 90% capacity		
Charging Current (max.)	1A			4A				
Charging Voltage	36.0 VDC	96.0 VDC		240.0 VDC		288.0 VDC		
Extended Runtime Model								
Battery Type	Depending on applications							
Quantity	3	8		20		24pcs x 2 strings		
Charging Current (max.)	8A			4A				
Charging Voltage	36.0 VDC	96.0 VDC		240.0 VDC		288.0 VDC		
<b>STATUS INDICATORS</b>								
Graphical LCD Display								
<b>AUDIBLE ALARM</b>								
Beeping	Battery mode, battery low, overload and fault							
<b>PHYSICAL</b>								
Dimension, W x D x H (mm)	145 x 400 x 220	192 x 460 x 340		260 x 560 x 708		350 x 650 x 890		
Net Weight (kg)	K 13.0 KS 7.0	32.0 15.0	33.0 16.0	86.0 34.0	92.0 37.0	175.0 70.0	183.0 77.0	
<b>COMMUNICATIONS</b>								
Interface Port	USB, EPO, intelligent slot					USB, RS232, EPO, intelligent slot		
Dry Contact	Optional			Yes; come as standard				
Intelligent Slot	AS400 / SNMP / RS232 - optional					SNMP - optional		
EPO	Yes							
<b>POWER MANAGEMENT</b>								
Software	Winpower - Support Windows® family (NT/XP/Vista/7/8/10), Linux, Unix, Sun Solaris & MAC.							
<b>ENVIRONMENTAL &amp; STANDARDS</b>								
Temperature	0 to 40°C							
Humidity	0 - 90% without condensation							
Noise Level	< 62dB at 1 meter			< 50dB at 1 meter		< 55dB at 1 meter		
Safety	EN62040-1-1							
EMI	EN62040-2							
EMS/RFI	IEC 61000-4-2 (ESD), IEC 61000-4-3 (RS), IEC 61000-4-4 (EFT), IEC 61000-4-5 (Surge)							

- Single phase 1-10KVA : 3 years warranty for electronic parts & labour, 2 years warranty for the battery against manufacturing defects.
- 3P in/1P out 10-20KVA : 2 years warranty for electronic parts and batteries against manufacturing defects.
- In the interests of continuous product improvement, all specifications are subject to change without notice.