

# Titan Innova Series

1KVA - 20KVA

High Power Double Conversion  
Online UPS



- 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)

Titan Innova 1K  
(rear panel)Titan Innova 2K  
(rear panel)Titan Innova 3K  
(rear panel)

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## Technical Specification

SERIES		TITAN INNOVA								
MODEL		1K/KS	2K/KS	3K/KS	6K/KS	10K/KS	3C10K/KS	3C20K/KS		
CAPACITY		1000VA/900W	2000VA/1800W	3000VA/2700W	6000VA/5400W	10000VA/9000W	10000VA/9000W	20000VA/18000W		
<b>INPUT</b>										
Nominal Voltage		230 VAC								
Input Voltage Range		110-300 VAC			176-276 VAC		110-276 VAC for single phase input 190-478 VAC for three phase input			
Frequency Range		45 Hz ~ 55 Hz or 54 Hz ~ 66 Hz								
Power Factor		> 0.99 @ 100% load								
<b>OUTPUT</b>										
Output Voltage		200 / 208 / 220 / 230 / 240 VAC			208 / 220 / 230 / 240 VAC		200 / 208 / 220 / 230 / 240 VAC			
Voltage Regulation		+/- 2%			+/- 1%					
Frequency Range (Synchronized Range)		45 Hz ~ 55 Hz or 54 Hz ~ 66 Hz								
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz								
Current Crest Ratio		3:1								
Harmonic Distortion, THDv	Linear load	≤ 4%		≤ 4%		≤ 2%				
	non-linear load	≤ 4%		≤ 7%		≤ 5%				
Overload		< 125% for 5 mins, < 150% for 30 sec, > 150% for 0.5 sec to bypass/shutdown			< 125% for 5 mins, < 150% for 30 sec, > 150% for 1.0 sec to bypass/shutdown		100-110% for 5 mins, 110-130% for 1 mins, 130-150% for 10 sec, >150% for 2 sec to bypass/shutdown			
Waveform (Batt. Mode)		Pure sinewave								
<b>EFFICIENCY</b>										
AC Mode		> 85%		> 86%		> 92%		> 92%		
Battery Mode		> 83%		> 92%		> 93%				
ECO Mode		> 97%		> 98%						
<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								
	Charging Current (max.)	1A			4A					
	Charging Voltage	36.0 VDC		96.0 VDC		240 VDC		288 VDC		
Long-run, KS Model	Battery Type	Depending on applications								
	Quantity	3		8		20		24pcs		
	Charging Current (max.)	8A			4A					
	Charging Voltage	36.0 VDC		96.0 VDC		240 VDC		288 VDC		
<b>STATUS INDICATORS</b>										
Graphical LCD Display		UPS status, load level, battery level, input/output voltage, discharge timer and fault conditions								
<b>AUDIBLE ALARM</b>										
Battery Mode		Beeping every 4 seconds								
Low Battery		Beeping every second								
Overload		Beeping twice every second								
Fault		Continuously beeping								
<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		32		33		86		
	KS	7		15		16		34		
<b>COMMUNICATIONS</b>										
Interface Port		USB, EPO, intelligent slot					USB, RS232, EPO, intelligent slot			
Dry Contact		Optional AS400 in intelligent slot				Yes; built-in as standard				
Intelligent Slot		AS400 / SNMP / RS232 - 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>										
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)								

• In the interests of continuous product improvement, all specifications are subject to change without notice.