**360 POWER QUALITY** 

# **TITANIUM SERIES UPS** (5.2-10kVA)

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True On-line Double Conversion Titanium Series UPS Series integrates DSP technology and a unique isolation transformer design to easily adapt to complicated loads. Small datacenters, Medical Lab equipment, light industrial facilities all require rugged UPS systems like the Titanium Series.

# Engineered to support demanding applications

# Available sizes 5.2kVA, 6kVA, 8kVA and 10kVA models available

# • Variable Voltages (Input/Output)

Variable voltages are available for the input (208/220/230/240VAC) and for the output (120/208/220/230/240VAC)

#### • High Voltage Units

The Titanium Series UPS systems will have high voltage units (5.2/6/8/10kVA)

#### • Isolated Transformer

All Titanium UPS units include an internal isolation transformer. This rugged design ensured low Common Mode noise (>0.5V), and low Normal Mode noise (>10V) neutral to ground when tested to ANSI/IEEE C62.41

# Conformal Coated Boards

Conformal coated boards allow for the Titanium Series to be used in "Light Industrial" applications. Boards that are conformal coated include the Main PCB, Comm., Charger and Control board.

#### • In-rush Capabilities

The Titanium Series UPS systems include a high in-rush capability. Supporting an overload for 130% for one second. This will allow the user to properly size their UPS system.

#### Customized Back Panels

Back panels are "customized" per customer. Allows for specific designs to ensure all power requirements are supported.

# • Extended Battery Cabinets

Extended battery cabinets are optional. Allows user to have extended runtimes dependent on requirement.

#### • External Maintenance Bypass Systems

External Maintenance Bypass Systems (MBS) are available in two types. Isolated and non-isolated version. Consult Factory for recommendations.

#### Warranty

Two (2) year warranty on the electronics, one (1) year warranty on the batteries. For additional warranty options please call factory.

# Specifications:

MODEL		5.2kVA(H)	6kVA(H)	8kVA(H)	10kVA(H)		
CAPACITY*		5.2kVA / 5.2kW	6kVA / 6kW	8kVA / 8kW	10kVA / 10kW		
INPUT							
Nominal Volt	age/ Range	208 /220 /230 / 240 VA	.C / +28% / -15% @ fu	ıll load			
Frequency Range		46Hz ~ 54 Hz @ 50Hz system, 56Hz ~ 64 Hz @ 60Hz system					
Phase		1 Phase with Neutral					
Power Factor		≥ 0.99 at 100% Load					
OUTPUT							
Phase		1 Phase with Neutral					
Output Voltage		104/110/115/120/2	104 /110 / 115 / 120 / 208 /220 / 230 / 240				
AC Voltage Regulation		± 1% (Normal)					
Frequency Range (Sync Range)		46Hz ~ 54 Hz @ 50Hz system, 56Hz ~ 64 Hz @ 60Hz system, (Batt Mode) +/- 0.1% Hz					
Overload	AC Mode/	100%~110%: 1 hour; 110%~130%: 1min; >130% : 1sec					
	Battery Mode	100%~110%: 30sec; 110%~130%: 10sec; >130% : 1sec					
		3:1 max					
Current Crest Ratio Voltage THD							
-		$\leq 2\%$ @ 100% Linear Load; $\leq 4\%$ @ 100% Non-linear Load (PF $\geq 0.8$ )					
Step Load Response Common Mode Noise		+/- 4% 50% step load, +/-6% 100% step load, Return +/-3% of nominal (11 cycles)					
Common Mode Noise Normal Mode Noise		< 0.5 VRMS < 10% V					
	e inoise	< 10% V					
EFFICIENCY							
AC Mode		90% 88%					
Battery Mode ECO Mode		97%					
BATTERY							
Voltage (VDC)		240, Nominal, 270 Float					
Battery Backup Time (Internal - 100% Load)		5.2kVA = 8  min., 6kVA = 7  min., 8kVA = 4  min., 10kVA = 2  min.					
Quantity		20					
Recharge Time		7 hours to 90%					
Recharge mi		7 110013 10 7070	PHYSICAL				
Standard Model	Dimension, W x D x H (In.)	9.8" x 28.2" x 32.5"	9.8" x 28.2" x 32.5"		9.8" x 28.2" x 32.5"		
	Net Weight (lbs)	266	266	301	301		
BYPASS		200	200		· · · · · ·	-	
Input Voltage		110 ~276 VAC					
Output Voltage		110 ~ 276 VAC					
Transformer Voltage Regulation		+/- 3%					
Overload Conditions		Continuous below 130%, 1 minute at 130%, 1 cycle at 1000%					
ENVIRONME	INT						
Operation Te	mperature	0 ~ 40°C (the battery lif	e will down when > 2	25°C)			
Operation Humidity		<95 % and non-condensing					
Operation Altitude		2000 ft.					
Heat Dissipation (BTU/Hr)		1970	2530	3372	4215		
Acoustic Noise Level (Front of Unit)		55-60dB @ 1 Meter	60dB @ 1 Meter	60dB @ 1 Meter	60dB @ 1 Meter		
MANAGEME							
Smart RS-232 or USB		Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux, Unix, and MAC					
Optional SNMP		Power management from SNMP manager and web browser					
MODBUS Card		Power Management with MODBUS communication					
AGENCIES							
RoHS		All units are RoHS compliant					
Safety Agencies		UL1778 5 <sup>th</sup> Edition, CSA22.2 No.107.3, IEC 62040-2:2018					
EMC		FCC Part 15J, Class A, EN 55022 Class A / CISPR 22, IEC 61000-3-2, IEC 61000-4-2, Electrostatic Discharge, IEC61000-4-3 Level 3 Radiated Electromagnetic Filed immunity. (Additional EMC Agencies listed in User's Manual).					