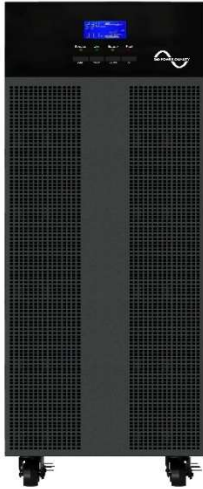


# TITANIUM SERIES UPS

(5.2-10kVA)



## 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.
- 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.*
- **Internal Maintenance Bypass**  
The Titanium Series UPS systems include an internal maintenance bypass. If batteries require replacement switch to MBS mode.
  - **In-rush Capabilities**  
The Titanium Series UPS systems include a high in-rush capability. Supporting an overload for 300% for 163mS. 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**  
Three (3) year warranty on the electronics, three (3) year warranty on the batteries. For additional warranty options please call factory.
  - **TAA Compliant**  
All units comply with Trade Agreement Act (TAA), 19 U.S.C ~~2501.2581



## Specifications:

MODEL		5.2kVA(H)	6kVA(H)	8kVA(H)	10kVA(H)	
<b>CAPACITY*</b>		5.2kVA / 5.2kW	6kVA / 6kW	8kVA / 8kW	10kVA / 10kW	
<b>INPUT</b>						
Nominal Voltage/ Range		208 /220 /230 / 240 VAC / +28% / -15% @ full load / -55% @ 50% load				
Frequency Range		46Hz ~ 54 Hz @ 50Hz system, 56Hz ~ 64 Hz @ 60Hz system				
Phase		Two Phases or One Phase + Neutral				
Power Factor		≥ 0.99 at 100% Load				
<b>OUTPUT</b>						
Phase		1 Phase with Neutral				
Output Voltage		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, 300% for 167mS				
	Battery Mode	100%~110%: 30sec; 110%~130%: 10sec; >130% : 1sec				
Current Crest Ratio		3:1 max				
Voltage THD		≤ 2 % @ 100% Linear Load; ≤ 4 % @ 100% Non-linear Load (PF≥0.8)				
Step Load Response		+/- 4% 50% step load, +/-6% 100% step load, Return +/-3% of nominal (11 cycles)				
Common Mode Noise		< 0.5 VRMS				
Normal Mode Noise		< 10% V				
<b>EFFICIENCY</b>						
AC Mode		90%				
Battery Mode		88%				
ECO Mode		97%				
<b>BATTERY</b>						
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%				
<b>PHYSICAL</b>						
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	
<b>BYPASS</b>						
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%				
<b>ENVIRONMENT</b>						
Operation Temperature		0 ~ 40°C (the battery life will down when > 25°C)				
Operation Humidity		<95 % and non-condensing				
Operation Altitude		3000 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	
<b>MANAGEMENT</b>						
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				
<b>AGENCIES</b>						
RoHS		All units are RoHS compliant				
Safety Agencies		TUV certified to comply to UL1778 5 <sup>th</sup> Edition, CSA22.2 No.107.3-14 UPS safety standards				
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).				