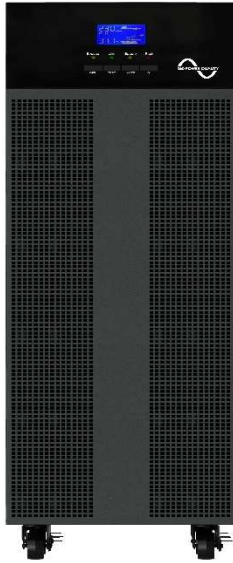




# TITANIUM SERIES UPS

(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.
- **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.

## 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	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		
<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).					