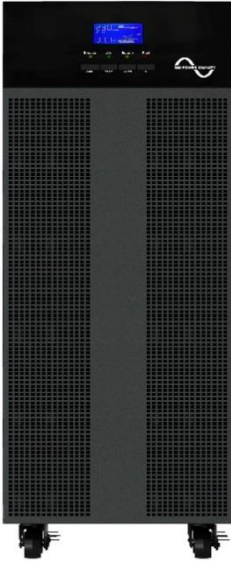


TITANIUM SERIES

10kVA/10kW



Improve System Performance with a Precision Voltage Regulator!



We take for granted that electrical power is abundant, stable, and free of disturbances. But power issues are the cause of a great deal of “Smart Home” downtime.

By using a **Titanium Series Double Conversion / On-Line UPS** to power your entire system, you can provide disturbance free, stable power to your electronics to extend their life, improve their performance, and reduce down-time.

A Double Conversion / On-Line UPS takes unstable AC power from either the grid or a secondary source, converts it to DC, then regenerates a very *Low THD AC Sine Wave* with *+/-1% accuracy* for both Voltage and Frequency. It not only provides continuous power when switching to/from a secondary power source (no more system reboots!), but it also acts as a full-time **Voltage Regulator** to provide the clean power your electronics are designed to accept. And it does this 24/7/365!

By using multiple UPSs in your home, you can completely isolate electrical loads to ensure there is no cross contamination. Use one UPS for **AV/IT/Security** electronics, and an additional UPSs for **Lighting/Shade** systems and other critical loads.

360 Power Quality has been providing robust power solutions to the Medical and Industrial community for years. This quality product is now available through Apex Technologies. We are here to help you design a solid power foundation using Titanium Series Voltage Regulating UPSs!

- Flexible Input Voltage with wide range**
 Titanium UPSs can accept Input Voltages of either 208V or 240V and outputs **120V and 240V simultaneously!** Input voltage range of up to -54% to +25% of nominal depending on loading.
- Built-in Isolation Transformer**
 All Titanium UPS units include an internal **Isolation Transformer**. Isolation Transformers establish a Neutral-Ground bond down-stream of the Main Breaker Panel to eliminate NG Voltage/Noise. This provides error free operation of digital electronics, and a lower noise floor for all connected devices. Isolation Transformers also isolate loads, so lighting/shade system noise does not get into the AV system.
- High Current In-rush Capabilities**
 The Titanium Series UPS can supply high “in-rush” currents of **125A @ 120V** for 100ms to connected electronics, allowing loads like audio power amplifiers to take advantage of the benefits of being power by the UPS.
- Standard SNMP Card**
 All Titanium Series UPS’ come equipped with an SNMP card standard. This allows for remote management via standard network connection.
- Conformal Coated Boards**
 Conformal coated printed circuit boards extend temperature specification and eliminate corrosion for long, trouble free operation.
- Extended Battery Cabinets**
 Custom (non-matching) Extended Battery Cabinets are available in multiple sized. Allows user to have extended runtimes of up to 24-hours at full load. Consult your Representative for sizing.
- External Maintenance Bypass Systems**
 External Maintenance Bypass Systems (MBS) are available in two types: Isolated and Non-Isolated versions. Consult your Representative for recommendations.
- Warranty**
THREE (3) year warranty on the UPS electronics and batteries. For additional warranty option, consult your Representative.

10KVA TITANIUM SERIES VOLTAGE REGULATING UPS

| Model Number | Input Voltage | Output Voltages |
|--------------------|--|---------------------------------------|
| TI-H100-50R | 240V Single Phase (L1, L2, GND) | 240V and 120V (L1, L2, N, GND) |
| TI-H100-51R | 208V Single Phase (L1, L2, GND) | 240V and 120V (L1, L2, N, GND) |

Specifications:

10kVA/10kW

| INPUT | | BATTERY | |
|--------------------------------------|---|--|---|
| Nominal Voltage and Phases | 208V or 240V Split/Single Phase. Other input voltages can be programmed. Consult Apex for details. | Voltage (VDC) | 240, Nominal, 270 Float |
| Input Voltage Range | -54% to +25% (< 50% Load) -26% to +15% (>= 80% Load) | Battery Backup Time (Internal - 100% Load) | 2 min. |
| Frequency Range | 46-64Hz 50/60Hz | Quantity | 20 |
| Power Factor | 1:1 | Recharge Time | 7 hours to 90% |
| OUTPUT | | PHYSICAL | |
| Voltage and Phases | (2) Independent 120V Phases - 240V Across both Phases. Other output voltages can be programmed. Consult Apex for details. | Dimensions (WxDxH) | 9.8" x 28.2" x 32.5" |
| AC Voltage Regulation | ± 1% (Normal) | Net Weight | 301 lbs. |
| Frequency Range (Sync Range) | 46Hz ~ 54 Hz @ 50Hz system, 56Hz ~ 64 Hz @ 60Hz system, (Batt Mode) +/- 0.1% Hz | BYPASS | |
| Overload | Overload | Input Voltage | 110 ~ 276 VAC |
| | Battery Mode | Output Voltage | 110 ~ 276 VAC |
| Current Crest Ratio | 3:1 max | Transformer Voltage Regulation | +/- 3% |
| Voltage THD | ≅ 2 % @ 100% Linear Load; ≅ 4 % @ 100% Non-linear Load (PF≧0.8) | Overload Conditions | 1 cycle at 1000%, 300% for 100ms, below 130%, 1 minute at 130% |
| Step Load Response | +/- 4% 50% step load, +/- 6% 100% step load, Return +/- 3% of nominal (11 cycles) | EFFICIENCY | |
| Common Mode Noise | < 0.5 VRMS | AC Mode | 90% |
| Normal Mode Noise | < 10% V | Battery Mode | 88% |
| | | ECO Mode | 97% |
| ENVIRONMENT | | MANAGEMENT | |
| Operation Temperature | 0 - 40- degrees C | Smart RS-232 or USB | Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux, Unix, and MAC |
| Operation Humidity | Less than 95% (non-Condensing) | MODBUS/Relay | Available |
| Operation Altitude | 2000 ft. | AGENCIES | |
| Heat Dissipation (BTU/Hr.) | 4215 (BTU/Hr.) | RoHS | RoHS compliant |
| Acoustic Noise Level (Front of Unit) | 60dBA @ 1 meter | Safety Agencies | TUV certified to comply to UL1778 5 th Edition, CSA22.2 No.107.3-14 UPS safety standards |

Project Data Intake:

| | | | |
|-------------------------------|---|---|---------------------------------------|
| Dealer Name: | | | |
| Project Name: | | | |
| Service Voltage at site: | <input type="checkbox"/> 240V Split Phase | <input type="checkbox"/> 208V Split Phase | <input type="checkbox"/> 208V 3-Phase |
| Output Voltage Required: | <input type="checkbox"/> 240V Split Phase | <input type="checkbox"/> Other | |
| Approximate Electrical Load: | | | |
| Required Run Time on Battery: | | | |
| Secondary Power Source? | <input type="checkbox"/> Generator | <input type="checkbox"/> Solar | <input type="checkbox"/> Other: |

UPS - Internal Battery Backup Times

| Load Percentage | Wattage | Run Time - Minutes |
|-----------------|---------|--------------------|
| 10% | 1kW | 79 |
| 25% | 2.5W | 25 |
| 50% | 5kW | 11 |
| 100% | 10kW | 2 |

Note: Custom Battery Cabinets to extend full-load run time to 8, 16, or 24 hours are available! Contact your Representative so we can design a custom solution.

