360 POWER QUALITY

TITANIUM SERIES UPS

(2-4kVA)



facilities all require rugged UPS systems like

complicated loads. Small datacenters, Medical Lab equipment, light industrial



Engineered to support demanding applications

Available sizes

2kVA, 3kVA and 4kVA 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)

Low Voltage and High Voltage Units

The Titanium Series UPS systems will have low voltage units (2/3kVA), and high voltage units (2/3/4/5.2/6/8/10kVA)

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.

The Titanium Series UPS systems include a high in-rush capability. Supporting an overload for 300% at 500mS 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		2kVA(L)	2kVA(H)	3kVA(L)	3kVA(H)	4kVA (H)	
CAPACITY*		2kVA / 2kW	2kVA / 2kW	3kVA / 3kW	3kVA / 3kW	4kVA/4kW	
INPUT							
Nominal Volta	ige/ Low-High / Range	(L) 120VAC - (H) 208 /2	20 /230 / 240 VAC / -	+28% / -15% @ full lo	ad		
Frequency Ra	nge	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 / Low-High		(L) 104/110/115/120, (H) 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%: 1 sec					
	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					
EFFICIENCY		To a second					
AC Mode		90%					
Battery Mode		88%					
ECO Mode		97%					
BATTERY		040 N					
Voltage (VDC)		240, Nominal, 270 Float					
Battery Backup Time Full Load (Internal)		2kVA = 25 min batt backup, 3kVA = 15 min batt backup, 4kVA = 11 min batt backup at @ 100% full load					
Quantity		7 h + 2 000/					
Recharge Tim	<u>e</u>	7 hours to 90%	510/51511				
Standard Model	Dimension, W x D x H (In.)	9.8" x 28.2" x 32.5"	9.8" × 28.2" × 32.5" 9.			" x 28.2" x 32.5"	
	Net Weight (lbs)	266	266	266	266		
BYPASS	Tree tree green (new)						
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							
Operation Ter	mperature	0 ~ 40°C (the battery lif	e will down when > 2	.5°C)			
Operation Humidity		<95 % and non-condensing					
Operation Altitude		2000 ft.					
Heat Dissipation (BTU/Hr)		1264	1264	1264	1264	1686	
Acoustic Noise Level (Front of Unit)		55-60dB @ 1 Meter	60dB @ 1 Meter	60dB @ 1 Meter	60dB @ 1 Meter	60dB @ 1 Meter	
MANAGEMENT							
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 th 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).					

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