

**POWERWELL (America) series Online HF UPS 3:3phase 10-80kva transformerless,
(For 190/208/220Vac, Line-Line Voltage)**



Introduction:Powerwell (America)series 3 phase 10-80kva is a high end uninterruptible power supply, which has adopted the world leading electrical and electronic technology to increase performance and super high reliability(MTBT>200,000h).3nos high speed DSPs with completed digital control fully ensure highest quality of power supply and UPS reliability. Being kin to 1.0 input power factor and less than 2% THDi lead this UPS green and energy saving. It also offers humanization design: full front access of service ability, user-friendly touch screen.

Perfect Applications:

Internet Servor ,Middle Data Center, Medium-scale network system / computing center, bank and securities, business server group, Medium-scale office automation, precision equipment, etc.

Features: complete digital control technology

Fully digital control with two DSPs, all the subsystems are digital controlled including the IGBT rectifier, inverter, charger, discharger.

Excellent electrical properties

True online double conversion instruction offers the safe and effective power protection for various loads, with strong output load capacity;

High input power factor, green and energy-saving

Input end with PFC and input PF of the whole UPS up to 0.99,;

Dual AC input source supportable

Allowable AC and bypass 2 input ac source

Strong environmental adaptability

Wide input voltage and frequency range, adaptation to all kinds of climatic and geographical environment;

Comprehensive protection measures

Surge Protection, short circuit protection, and other protection to ensure the reliability of UPS;

IGBT and SCR adopts the advanced EUPEC power module;

The adoption of advanced technology (IGBT driving technology, IGBT soft over-current shutdown) improves the reliability and safety of inverter.

Similar modular design

Each phase main board are designed like rack for easy assembling and maintenance

Inbuilt battery pack plug-in design for easy use

Intelligent battery management (ABM)

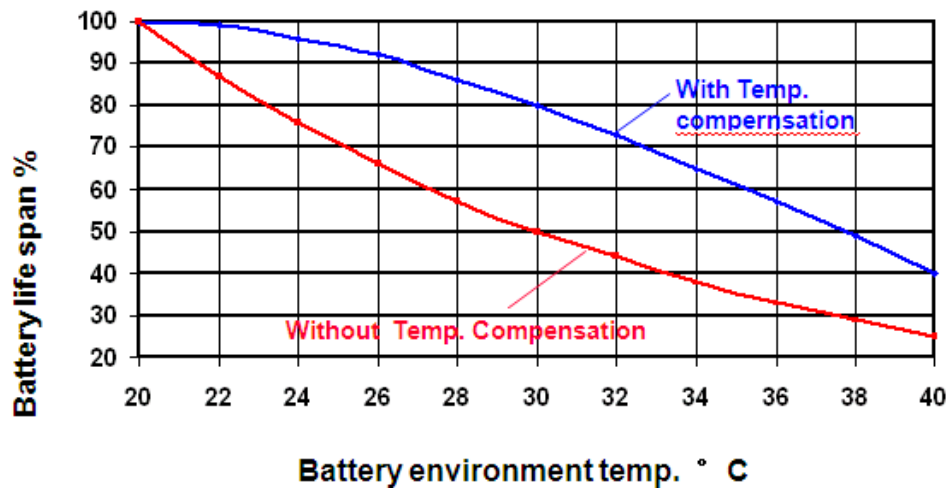
Adopting the intelligent battery management:

Intelligent charger: interval three-stage charging process(constant current, constant voltage, float charging and charger shut off, when battery voltage decrease to a lower level, charger restarts to work)

Back up time displayed on the LCD screen

Battery temperature compensation

Battery lifespan comparison between with temperature compensation and without it



Online detecting battery status,

The max battery charging current can set by end users according to the battery features, to avoid any damage caused by the big charging current;

Periodic self-test battery, detecting the battery problems timely;

With battery inverse connection, over voltage / current protection, to protect the battery;

Cold start and AC start Function

Directly start the UPS through battery or start UPS through Mains only.

Superior network monitoring capabilities

Communication port (RS232, USB, and so on) connecting with computer, SNMP card optional,

Easy-maintenance design

a) Adopts the full front maintenance design, reducing the restrictions

on the installation space, and saving the space of computing center;

b) Modular design class, convenient and easy site maintenance;

c) With manual maintain bypass,

d) Battery replacement without disrupting the UPS running;

e) Historical records search function, events up to 1,000 items;

Friendly interface with Large LCD

Large LCD display and LED status indication; Abundant information display of UPS;

Technical Specifications:

Model	PWA3310	PWA3315	PWA3320	PWA3330	PWA3340	PWA3360	PWA3380
Capacity/Rating	10Kva/9K	15Kva/13	20Kva/16	30Kva/27	40Kva/36	60kva/54	80kva/72
Power	w	.5Kw	Kw	Kw	Kw	kw	kw
AC Input							
Rated voltage	190/208/220Vac (Line-Line)						
Input connection	3 phase +N+PE						
Power factor	Above 0.99						
THDi	Less 3%						
Voltage range	150-270Vac (Line voltage)						
Frequency	40-70Hz						
Bypass	150-270Vac (Line-Line) +/- 15%						
Output							
voltage precision	±0.5%						
Dynamical voltage transient	Less 5% (0~100% load step)						
THDU	THD less 3% (linear load) , 5%(non-linear load)						
Power factor	0.9 (lag)						
Frequency tracking range	50/60Hz±3Hz						

Frequency precision	$\pm 0.05\%$ (Battery mode) , $\pm 3\text{hz}$ (Line mode)
phase displacement	$120\pm 0.5^\circ$ (Balance or imbalance load)
Frequencytracking rate	Less 1Hz/s
Overload capability	105% long time operation
	125%,transfer to bypass after 10 minutes
	Above 150%, transfer to bypass after 1s
Bypass overload	Above 180%, long time operation
	Above 180%, last for 1s
Transfer time	0ms
System	
System efficiency	Above 91%(Normal mode);96%(ECO) mode
Display	Touch screen LCD+LED
EMC	IEC62040-2
	IEC61000-4-2 (ESD)
	IEC61000-4-3 (RS)
	IEC6100-4-4 (EFT)
	IEC6100-4-5 (Surge)
Noise (1m)	Less 60dB
Insulating resistance	Above 2M (500VDC)
Insulating intensity	(input, output to PE) 2820Vdc, leakage current lower than 3.5mA, no flashover in 1min
Surge protection	Meet the requirement of IEC60664-1class,endure surge of 1.2/50us+8/20us higher than 6KV/3KA

IP class		IP30						
Battery configuration								
Installation(dc)		+96/108/120Vdc , - 96/108/120Vdc(settable from LCD screen)						
Connection		Bottom cable connection in front						
Charger		1-20A(settable)						
Dimension (W×D×H)	Long-run n model	620×800×1100			720×900×1850		735*850*1680	
	Inbuilt batt.	620×800×700			720×900×1050		954*839*1857	
Weight (kg)	Long-run n model	40	60	70	120	130	150	160
	Inbuilt batt.	125	145	180	300	340	****	****

Note: Any specification subject to change without notice;