

Avalon Power Series 15/20/30/40/60/80/100/120Kva

## Avalon Power Series 3 phase/ 3phase

Versatile Power Protection with Scalable Runtime For A Wide Range of Power Requirements



Three-Phase Design



UPS Parallel Expansion



Generator Compatible



Energy-saving



Dual input



Power Management

POWERTECH Industrial Corporations Avalon Power33 Three-Phase UPS Series offers state-of-the-art technology with quality and reliability, protecting small data centers, intelligent equipment, and sensitive devices against all power disturbances while allowing customized solution to meet different power requirements.

Designed with the integrated IGBT technology and high-speed DSP control arithmetic, these UPS modules deliver superior performance through reduced component while enhancing the operating efficiency. With higher power factor corrected input, and paralleling capability, Avalon Power33 UPS Series achieves lower total cost of ownership and reduces carbon footprint. Features such as parallel capability for capacity and redundancy, extended backup options, user-friendly graphical display, and optional SNMP network management capability make the Avalon Power 33 Series the most effective UPS with manageability and serviceability in its class.

### APPLICATIONS

- SME Businesses & Data Centers
- Computer Room, Service Center
- Internet Service Provider (ISP)
- Internet Data Center (IDC)
- Telecommunication and Network Equipment

### SERIES FEATURES

- Pure Sine Wave Output
- Online (Double Conversion) UPS Topology
- Available with Up to 4 Units in Parallel
- Dual Input
- Tower Form Factor
- Emergency Power Off (EPO) Port
- Bypass Overload Capability
- LCD+LED, keyboard, and \*touch screen (\*select model)
- USB & Serial Connectivity Ports
- SNMP Remote Management Capability (Optional)
- Monitoring & Management Software

#### Online Double Conversion Topology



Online (Double Conversion) topology provides the perfect and reliable output quality regardless of the condition of the incoming power by converting AC power to DC power and then back to AC power. With zero transfer time during unexpected power outages, Online topology guarantees the power continuity of the mission-critical equipment to ensure 100% uptime and system protection.

#### Powertech® Monitoring Software System Graceful Shutdown Software



This software can provide orderly shutdown for your computer systems during the event of an extended AC power failure. This software supports Windows, Linux, and Mac operating systems and virtual platforms VMware, Microsoft Hyper-V, and Citrix XenServer.

\*Software functions may vary due to firmware version and/or hardware constraints.

# TECHNICAL SPECIFICATIONS

Model Name	AP3315	AP3320	AP3330	AP3340	AP3360	AP3380	AP33100	AP33120
<b>Configuration</b>								
Topology	Pure Sine Wave							
Model Brief	Three Phase Input / Three Phase Output Tower UPS							
Capacity (VA / Watts)	15000 / 13500	20000 / 18000	30000 / 27000	40000 / 36000	60000 / 54000	80000 / 72000	100000 / 90000	120000 / 108000
<b>Main Input</b>								
Input Voltage	380V/400V/415V (line to line) 220V/230V/240V (line to neutral)							
Input Frequency	50/60Hz							
Power Factor	>0.99							
Input Voltage Window	-40% ~ +20% (derating power) -20% ~ +25% (full load)							
Frequency Window	40Hz-70Hz							
<b>Battery</b>								
Battery Voltage	±240VDC							
Quantity of lead-acid cells	40=[1 battery (12V)] , 240=[1 battery (2V)]							
Charger Power	10%*Power (selectable from 0-20%)							
Built-in internal battery model	CB15	CB20	CB30	N/A			N/A	
<b>Bypass</b>								
Bypass Voltage	380V/400V/415V (line to line), 220V/230V/240V (line to neutral) (Three phase)							
Bypass Voltage Window	-20% ~ +15%							
Bypass Overload Capability	load<125%, long time operation 125%<load<130%, last for more than 1 hour 130%<load<150%, last for more than 6 minutes load>150%, last for more than 100ms							
<b>Output</b>								
Output Voltage	380V/400V/415V, three phase 220V/230V/240V, one phase							
Voltage Precision	1% (balance load), 1.5% (unbalance load)							
Voltage THD (Total Harmonic Distortion)	THD<2%(linear load), THD<5%(non-linear load)							
Power Factor	0.9							
Crest Factor	3:1							
Phase Tolerance	120°±0.5° (balance and unbalance load)							
Overload Capability	<105%, long time operation 105%<load<110%, transfer to bypass after 1hour 110%<load<125%, transfer to bypass after 10 minutes 125%<load<150%, transfer to bypass after 1 minute >150%, transfer to bypass after 200ms							
<b>System</b>								
System Efficiency	Normal mode: 95% ECO mode: 98%							
Battery Mode Efficiency	95%							
Display	LCD+LED and keyboard			LCD+LED, Touch screen and keyboard				
Interface (Communication Ports)	RS232, RS485, SNMP card, EPO, Dry contacts							
Installation / Connection	Terminal block connection							
Operation Temperature	0 °C - 40 °C							
Storage Temperature	-20 °C - 70 °C							
Relative Humidity	0-95% (non-condensing)							
Noise (dB)	<55dB							
Maximum parallel units	4pcs							
<b>Physical</b>								
Weight (kg)	46	46	60	93	186	208	256	278
Dimensions (H x W x D) (mm)	668*280*730	668*280*730	788*320*781	1100*540*762	1350*600*855		1600*600*855	

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