

## APTB 31X 3P/1P 384VDC Online UPS Selection Guide

MODEL	APTB 31 31-10K	APTB 31 31-15K	APTB 31 31-20K	APTB 31 31-30K	APTB 31 31-40K	APTB 31 31-60K	APTB 31 31-80K	APTB 31 31-100K	APTB 31 31-120K
CAPACITY	10KVA / 8KW	15KVA / 12KW	20KVA / 16KW	30KVA / 24KW	40KVA / 32KW	60KVA / 48KW	80KVA / 64KW	100KVA / 80KW	120KVA / 96KW
<b>INPUT</b>									
Nominal Voltage	3 x 380VAC (3Ph + G or 3Ph + N + G)								
Acceptable Voltage Range	304VAC ~ 456VAC								
Frequency	50Hz $\pm$ 5 Hz ( $\pm$ 10%)								
<b>OUTPUT</b>									
Nominal Voltage	220VAC/230VAC/240VAC (Selectable)								
Connection Type	Hardwire 3-wire (1Ph+N+G)								
Waveform	Pure Sinewave								
Output Voltage Stability	Steady state	$\pm$ 1%							
	Transient state	$\pm$ 5%							
Frequency	50 Hz								
Frequency Stability	$\pm$ 1%								
Frequency Synchronisation Range	$\pm$ 5Hz (Equal to bypass working range)								
Frequency Synchronisation Speed	1~2 Hz/s								
Power Factor	0.8								
Crest Factor	3:1								
Total Harmonic Distortion (THDv)	<2% (Linear Load) <4% (Non-linear Load)								
Dynamic in-rush Voltage Range	0%~>100%~>0% (R Load) <math>\pm 5\%</math> : 20%~>100%~>20% (R Load) $\pm 3\%$								
Dynamic Recovery Time (III Grade)	0%~100% RCD load : <60 ms recover to 90% of nominal voltage								
Phase Displacement	120° $\pm$ 1% (balanced load) 120° $\pm$ 2% (imbalances 50% of the load)								
Transfer Time	0 ms								
Overload Capability	0% ~ 110% continuous running; 110% ~ 150% for 10 min~1 min; >160% for 200ms								
Short-circuit Capability	60~100ms								
Transient Response Time	< 5ms								
<b>BYPASS</b>									
Connection Type	Hardwire 3-wire (1Ph+N+G)								
Input Voltage Range	220VAC $\pm$ 25%								
Overload / Short-circuit capability	1.5 In~1.8 In 1h~30s 1.8 In ~ >2.0 In 30s~200ms								
<b>SYSTEM</b>									
Efficiency (@ linear load)	$\geq$ 90%								
ECO Mode (Non-parallel models)	Yes								
EPO Function	Yes								
Standard	IEC 61000-4-5 Surge Protection, IEC 62040-2 EMC/EMI, IEC62040-1 Safety								
<b>BATTERY &amp; RECTIFIER</b>									
Rectifier	Type	6 pulse							
	Rated output voltage	384 VDC							
	Charger voltage	395VDC ~ 435VDC (Adjustable)							
	Charging current(max)	Default 10A, Maximum=Capacity / Battery Voltage				Default 10A, Maximum 40A			
Battery	Type	Support VRLA Battery							
	Numbers	32 Pcs (29 ~ 32 pcs adjustable)							
	Reverse Diode	No							
	Cold Start	Yes							
<b>PHYSICAL</b>									
IP Protection	IP20 (Default), IP21/IP31 (Option)								
Dimensions, D x W x H (mm)	800 x 800 x 1800							800 x 1200 x 1800	
Net Weight (Kgs)	360	386	400	430	490	610	680	900	920
<b>ENVIRONMENT</b>									
Operating Temperature	0~ 35°C continuous running, 40°C 8-hour running at nominal input voltage, recharging batteries and no overload, 45°C derating to 85% with linear load								
Operating Humidity	0~90% (non-condensing)								
Noise Level	Less than 70dB @ 1 Meter								
<b>MANAGEMENT</b>									
Modbus RS-232/RS485	Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC								
Dry Contacts	6 outputs and 2 inputs								
Optional SNMP	Power management from SNMP manager and web browser								

Product specifications are subject to change without further notice.