

APT31X 3P/1P 220VDC Online UPS Selection Guide

MODEL	APT31 31-10K	APT31 31-15K	APT31 31-20K	APT31 31-30K	APT31 31-40K	APT31 31-60K	APT31 31-80K	APT31 31-100K	APT31 31-120K	
CAPACITY	10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW	40KVA/32KW	60KVA/48KW	80KVA/64KW	100KVA/80KW	120KVA/96KW	
INPUT										
Nominal Voltage	3 x 380VAC (3Ph + G or 3Ph + N + G)									
Acceptable Voltage Range	304VAC ~ 456VAC									
Frequency	50Hz ±5 Hz (±10%)									
OUTPUT										
Nominal Voltage	220VAC/230VAC/240VAC (Selectable)									
Connection Type	Hardwire 3-wire (1Ph+N+G)									
Waveform	Pure Sinewave									
Output Voltage Stability	Steady state	±1%								
	Transient state	±5%								
Frequency	50 Hz									
Frequency Stability	± 1%									
Frequency Synchronisation Range	± 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) <±5% : 20%~>100%~>20% (R Load) ±3%									
Dynamic Recovery Time (III Grade)	0%~100% RCD load : <60 ms recover to 90% of nominal voltage									
Phase Displacement	120° ±1% (balanced load) 120° ±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									
BYPASS										
Connection Type	Hardwire 3-wire (1Ph+N+G)									
Input Voltage Range	220VAC ± 25%									
Overload / Short-circuit capability	1.5 In~1.8 In 1h~30s									
	1.8 In ~ >2.0 In 30s~200ms									
SYSTEM										
Efficiency (@ linear load)	≥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									
BATTERY & RECTIFIER										
Rectifier	Type	6 pulse				12 pulse				
	Rated output voltage	220 VDC								
	Charger voltage	216VDC ~ 243VDC (Adjustable)								
	Charging current(max)	Default 10A, Maximum=Capacity / Battery Voltage				Default 10A, Maximum 40A				
Battery	Type	Support VRLA Battery								
	Numbers	16 - 18 pcs (adjustable)								
	Reverse Diode	Yes								
	Cold Start	Yes								
PHYSICAL										
IP Protection	IP20 (Default), IP21/IP31 (Option)									
Dimensions, DxWxH (mm)	800 x 800 x 1800				800 x 1200 x 1800			800 x 1600 x 1800		
Net Weight (Kgs)	354	386	400	480	680	910	1010	1360	1620	
ENVIRONMENT										
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									
MANAGEMENT										
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.