


UPS - SCHEDULE OF REQUIREMENTS									
SYSTEM VOLTAGE AND FREQUENCY					400 Volts, 50 Hz				
SITE LOCATION					Government Printing Works - Pretoria				
CLIMATIC CONDITIONS					Altitude 1400m above Sea Level				
					Ambient Temperature 0°C to 40°C				
					Relative Humidity 40% - 96%				
DESIGNATION					Server room				

	UPS		1	2
1	Designation & Labelling		UPS 1	
2	Overview	GENERAL	Eaton/Schneider(APC)/Delta or equal and approved	
		Application	No break in power to IT Equipment backup	
		Rated Voltage (Input)	400	
		Input Wiring	3P + N + E	
		Output Wiring	3P + N + E	
		Arrangement	In Line	
3	Performance Characteristics	Output Power Rating KVA	100 kVA	
		Output Power Rating KW @ 0.8 PF	80kW	
		Efficiency	91% typically	
		Nominal Output Voltage	400V, 3 phase, 4 wire adjustable from 380V to 415V nominal voltage for all load conditions.	
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		Frequency	50 Hz	
		Overload conditions	125 % of full load for 5 min	
		Protection	Internal electronic overload	
4	Environmental conditions	Application	Indoor	
		Temperature Range	10-40 deg C operating	
		Conditioned room	Airconditioned Room - typically 20 deg c	
		Heat Dissipation @ full load	Manner of 4000 BTU/ Hour	
5	Battery	Type	Sealed, Maintenance Free	
		Charging Method	Float / Trickle	
		Backup (Time) at full laod	15 minutes	
		Life expectancy	10 years or 250 complete discharge cycles	
		Protection	Circuit Breaker	
6	Alarms	LCD Display For Alarms	Unit on Battery, Low Battery, Summary Alarm, UPS On , Input Fail, maintenance	
		Audible Alarm conditions	Unit on Battery, Low Battery, Input Fail, Maintenance	
		Event Log	Event log for 20+ conditions	
7	Communication	Coms Ports	RS 232 Interface Port, RS 485 Interface Port and ethernet Port	
		Software	Windows supported to be cabable of retrieving all info on unit display	
		Remote Monitoring allowances	Event Log, alarm conditions, (Remote Dial up Provision)	
		Remote Monitoring Panel	To be provided.	
8	Bypass	Auto	Transfer of load to bypass source when overload, Over temperature or malfunction within the unit occurs	
		Manual	External Manual Bypass to enable full maintenace without interruption to supply	
9	Cabinet	Material	Freestanding anodised aluminium or 20mm thick epoxy coated mild steel	
		Physical dimensions (maximum)	To be determined by supplier	
		Cooling	Forced air by internal Mounted fans	
10	Testing	Factory	Operational Discharge, recharge and internal Battery Tests	
			Full Funtionality test and sign off.	
		Site	As per Ibuya Test Schedule	
			Suppliers commissioning sheet	
11	General	Internal Protection	AC Input Over current and Under Voltage.	
		Automatic Battery Test	Programmable for daily operation	
		Parellel Functionality	Unit to be compliant for parallel operation with like unit	
		Loads	Typically IT and electronic equipment	

				ENGINEER:	DRAWN:	DATE:	CHKD	P.SIZE	TITLE: Government Printing Works UPS Schedule	
				MK	VT	NOV'17		A3		
				PROJ No.:		DWG No	REV	SCALE		
A	General Revision	KS	26/02/20	MK	17052		A	nts		
0	Original Issue	VT	22/02/18	AM	602					
REV	DESCRIPTION	BY	DATE	CHKD	FILE NAME:	17052_602	SHEET:		1 of 1	