



NATIONAL HEALTH
LABORATORY SERVICE

Histology Department
Room F/3/D32
Nelson Mandela Academic Laboratory
Nelson Mandela Academic Hospital
Off Sissons Street
Mthatha
5100

RE: Specification for UPS x2, Histology NMAL

25/05/2021

			COMPLY	
			Y	N
Application		Power supply to Sakura VIP 5&6 Tissue Processors		
Input	Phase	Single + G		
	Voltage Range	55-150 Volts AC		
	Frequency Range	44-66 Hz (Auto sensing)		
Output	Capacity	1800 Watts		
	Output Voltage	100/110/115/120/127 VAC		
	Output Power Factor	0.9		
Efficiency	Line Mode	Up to 92%		
	High Efficiency Mode	Up to 96.5%		
Battery	Battery Type	Maintenance free valve regulated sealed lead acid 12 volts DC		
	Battery Number	4		
	Battery Voltage	48 volt DC BUS		
	Battery recharge time to 90%	4 hours		
Display	LCD measures	Voltage/ Frequency/ Load Level/Battery level/ Output current/Estimated remaining backup time		
Alarm	Audible or visual	Line failure/ Low battery/ Transfer to bypass/ System fault		
Protection	Full Protection	Overload/ Over temperature/ Short circuit/ Discharge/ Overcharge		
Physical	Dimensions	Compact, tower design		
	Net weight	+/- 20kg		
Environmental	Operation Temperature	0-40 degrees Celsius		
	Operation Humidity	20-95%		
	Noise Level	< 50 dBA @ 1 meter away from front		
Accessories		Trolley for easy moving		
Warranty period		1 year minimum		

[Signature]
11/6/2021

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Specification for UPS x3, Histology NMAL

		COMPLY	
		Y	N
Application	Power supply to computers		
Requirements	220 V, 3kVa		
Battery	Maintenance free lead acid		
Battery recharge time	8 hours to 90% full capacity		
Back Up time	10 minutes		
Display	LED Display – Battery level		
Operating Temperature	Room Temperature		
Dimensions (W) x (D) x (H) cm	+ - 30 x 20 x 20 cm or smaller		
Weight	< 20 kg		
Ergonomic Design	Compact, Tower design		
Accessories	Trolley for easy moving		
Warranty period	1 year minimum		



Histology Laboratory Manager, NMAL
Alrika de Beer

Business Manager (acting), NMAL
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