

UL60601-1
Approved

Intended for use in critical care and life support applications

Safe and secure MEDICAL GRADE UPS

Two types of capacity

1kVA



1.5kVA



Safe even in operating rooms!

Passed safety standards for medical electrical equipment

UL60601-1 approved

Response without interruption to sudden blackout or voltage unstable!

On-line type UPS

Compact and lightweight / Can be mounted on ventilators, etc.

No electrical work required

Quiet even in ICU/CCU

Lower noise and low heat generation



What is "UL60601-1"?

Normally, the safety standard obtained for UPS is only UL1778, which focuses on fire and electric shock prevention. In addition to UL1778, REMiO was the first Japanese UPS to obtain UL60601-1, which is intended for medical equipment with extremely severe restrictions on electrical insulation and leakage current.

Model Name		REMiO 1kVA	REMiO 1.5kVA	
Model Designation		NUP-1000UL	NUP-1500UL-L	
Capacity (VA/Watts)		1000 / 700	1500 / 1050	
Input	Source Resultant Pulse	Single-phase Two-wire		
	Normal Input Voltage	AC100V		
	Input Voltage Range	AC100V±10%		
	Normal Frequency	50/60Hz (Automatic Recognition)		
	Frequency Range	45~65Hz		
	Input Power-factor	0.98 or more (at Normal Loading)		
Output	Source Resultant Pulse	Single-phase Two-wire		
	Output Voltage	AC100V		
	Voltage Accuracy	AC100V±2% or less		
	Output Frequency	50/60Hz		
	Frequency Accuracy	50/60Hz±0.1Hz		
	Harmonic Distortion	2% or less		
	Load Crest Factor	2.5:1		
	Efficiency	85% or more		
	Overload Capacity	Current or Power 105~110% within 10sec	Current or Power 101~110% within 10sec	
		Current 110~120% / Power 110~150% within 1sec		
		Current more than 120% / Power more than 150% Instantaneous Interruption		
	Automatic Bypass	Uninterrupted Switching		
Short-circuit Protection	Yes			
Battery	Type	Sealed Lead-acid Batteries		
	Battery Quantity	3pcs	6pcs	
	Runtime at Full Load	10min (at Ambient Temperature 25°C Initial Characteristic)		
Leakage Current		500μA or less		
Sound Level at Half Load		45dB/A or less		
Approval Standard		UL1778, UL60601-1		
Dimensions		145 × 390 × 225 (mm)	166 × 521 × 328 (mm)	
Weight		16.7kg	31.9kg	
Calorific Value		0.2kw	0.3kw	
Operating Temperatures		0~40°C		
Operating Relative Humidity (Non-condensing)		10~80%		

Meets "JIS T 1022:2018" (Japanese Safety Standards for Hospital Electrical Equipment)

Provide an uninterruptible emergency power supply for the following circuits of medical electrical equipment that must be supplied with uninterruptible power (a power supply that ensures continuity of AC power) when commercial power supply stops.

① Medical electrical equipment that requires power supply without blackouts (a power supply that ensures continuity of AC power)

② Surgical light

Since uninterruptible power supplies are not usually suitable for medical applications, those that are not for medical use generally have a warning in the product catalog, instruction manual, etc. that asks the user not to use them for medical applications.

Uninterruptible power supplies applicable for medical requires special considerations, and so it is necessary to select products approved for medical use from the perspective of the Product Liability Law (PL Law) and user's liability (UL).

General UPS is not suitable for medical use.