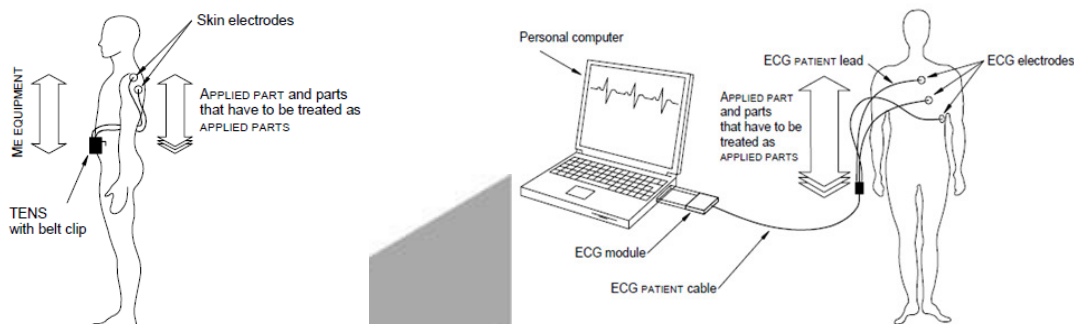


Briefing on Differences Between 60950 and 60601

1. Applied Parts 的位置定義:

Part of ME equipment that in normal use necessarily comes into physical contact with the patient for ME equipment or an ME system to perform its function.



2. MOPP 及 MOOP 的分等要求:

- MEANS OF PATIENT PROTECTION (MOPP) (For patient contact parts)
- MEANS OF OPERATOR PROTECTION (MOOP) (For operator contact parts)
- 2 MOOP/MOPP = Double/Reinforced Insulation
- 1 MOOP/MOPP = Basic Insulation

3. UL CCN:

QQHM2 for Medical power

PIDF for Medical Devices

4. Comparison:

Item	60950	60601 MOOP (for Power)	60601 MOPP (for Power)
Insulation Class	I, II, III	I, II and Internally powered (Internally powered equipment that also connect to a supply mains shall comply with the requirements for class I or class II while so connected, and with the requirements for internally powered equipment while not so connected.)	
Hipot	B/I: 1500Vac D/I: 3000Vac	Same as 60950	B/I: 1500Vac D/I: 4000Vac
Creepage Distance (Interpolation is allowed)	Working voltage: 300Vrms B/I: 3.2mm D/I: 6.4mm	Same as 60950	Working voltage: 250Vrms B/I: 4.0mm D/I: 8.0mm
			Working voltage: 300Vrms B/I: 4.7mm D/I: 9.4mm
Clearance (Interpolation is NOT allowed for 60601)	Working voltage: 300Vrms B/I: 2.0mm D/I: 4.0mm	Same as 60950	Working voltage: 250Vrms B/I: 2.5mm D/I: 5.0mm
			Working voltage: 300Vrms B/I: 3.5mm D/I: 7.0mm
Opposite Polarity (L to N)	Creepage: 2.5mm Clearance: 1.5mm	Creepage: 3.0mm Clearance: 1.6mm	

Leakage Current (Touch current)	Class I: 0.75mA/ 3.5mA Class II: 0.25mA	NC: 100uA (PE connected) SFC: 500uA (PE open, same as 60950) (No patient circuit involved)	
Heating (External Surface)	Limit: 75°C or 95°C max.	Limit: 48°C max.	
Y Capacitor across Pri to Sec	One Y1 or Two Y2	Same as 60950	Two Y1
Fuse	One is OK	One for Class II Two for Class I	
Class II USA Plug (1-15P)	Polarized or not	Polarized (unless both L and N have fuse)	
Color	No limit	Red for urgent only Yellow for caution	
外殼防火要求:	移動式產品 : V-1 固定式產品 : 5VB	移動式產品 : V-2 固定式產品 : V-1	
Discharge Test	After 1s : < 37% of initial voltage	After 1s : < 60V	
Triple Insulated Wire	Accepted 950 tested wire (3000V for B/I) (6000V for D/I)	Same as 60950	Tested per 60601-1 or else consider as basic insulation (3000V for B/I) (8000V for D/I)
Insulation Sheet	1 layer: S/I or R/I: >0.4mm 3 layers: By Hipot test	Same as 60950	
Input Marking of A, VA, or W	Max. only	Mark the upper and lower limits of the range(s), if the range(s) is > ± 10 % of the mean value of the given range	
Accessibility of Live part	Check by finger, pin and 50mm probe	Check by finger, pin, 4mm probe, hook	

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