



October 29, 2020
Cosel Co.,Ltd
WS Design Section

EMI/EMS Test Result

According to IEC60601-1-2 4th Edition(EMS)

Model Name : WMA75F series

The EUT is operated with following condition during EMI/EMS test.

Input Voltage : 230,240VAC / 50Hz
Output Current : Rated Current
Ambient Temperature : 25°C ± 10°C

Approved :

Takashi Kajii

Prepared :

Atsushi Nishikawa

#	Subject	Reference standard	Test Condition	Criteria *1	Result
1	EMI	Conducted Emission	EN55032 Class B CISPR 32 Class B	-	Pass
2		Radiated Emission	EN55032 Class B CISPR 32 Class B	-	Pass
3	EMS	Electrostatic discharge immunity test	IEC61000-4-2 Contact Discharge : Level 4 (8kV) Air Discharge : Level 4 (15kV) Applied to Input, Output, FG and Chassis	A	Pass
4		Radiated, radio-frequency, electromagnetic field immunity test	IEC61000-4-3 10V/m : (80MHz~2.7GHz) 80% Amplitude modulated	A	Pass
5		Electrical fast transient / Burst immunity test	IEC61000-4-4 Level 4 (4kV) Repetition Rate : 5kHz and 100kHz	A	Pass
6		Surge immunity test	IEC61000-4-5 (3rd) Line to Line : Level 4 (2kV) Line to Earth : Level 4 (4kV)	A	Pass
7		Immunity to conducted disturbances, induced by radio-frequency fields	IEC61000-4-6 Voltage Level (e.m.f.) : Level 3 (10Vrms)	A	Pass
8		Power frequency magnetic field Immunity test	IEC61000-4-8 Magnetic Field Strength : Level 4 (30A/m)	A	Pass
9	Voltage dips, short interruptions and voltage variations immunity test	IEC61000-4-11	(1) 100% dip for 10ms,0°,45°,90°,135°,180°,225°,270°,and 315	A	*2 Pass
			(2) 100% dip for 20ms,0°	A	*3 Pass
			(3) 60% dip for 100ms,0°	A	*4 Pass
			(4) 30% dip for 500ms,0°	A	Pass
			(5) 100% dip for 5seconds (short interruption)	B	Pass

***1 Definition of Criteria**

Criteria A : (1) No output voltage drop with control circuit failure.
(2) No protection circuit and other circuit malfunction.

Criteria B : (1) The output voltage is temporary degradation of performance.
It recovers its normal performance without operator intervention.
(2) No protection circuit and other circuit failure.

*2 Output Current:85% or less of rated current(at 100VAC)

*3 Output Current:60% or less of rated current(at 100VAC)

*4 Output Current:40% or less of rated current(at 100VAC)

<Notes>

Power supply can't determine the final equipment performance against EMS test. Therefore we confirmed the output voltage performance only. EMS test should be performed as a final product.