



## EMI/EMS Test Result

 Model Name : WBA350B series

 Approved : Takashi Kajii

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

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

 Prepared : Takeshi Natsuno

#	Subject	Reference standard	Test Condition	Criteria *1	Result	
1	EMI		Conducted Emission	EN55032 Class B CISPR 32 Class B	-	Pass
			Radiated Emission	EN55032 Class A CISPR 32 Class A	-	Pass
3	EMS	IEC61000-4-2	Electrostatic discharge immunity test Contact Discharge : Level 4 (8kV) Air Discharge : Level 4 (15kV) Applied to Input, Output, FG and Chassis	A	Pass	
4		IEC61000-4-3	Radiated, radio-frequency, electromagnetic field immunity test 10V/m : (80MHz~2.7GHz) 80% Amplitude modulated	A	Pass	
5		IEC61000-4-4	Electrical fast transient / Burst immunity test Level 4 (4kV) Repetition Rate : 5kHz and 100kHz	A	Pass	
6		IEC61000-4-5	Surge immunity test Line to Line : Level 4 (2kV) Line to Earth : Level 4 (4kV)	A	Pass	
7		IEC61000-4-6	Immunity to conducted disturbances, induced by radio-frequency fields Voltage Level (e.m.f.) : Level 3 (10Vrms)	A	Pass	
8		IEC61000-4-8	Power frequency magnetic field Immunity test 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) 30% dip for 500ms, 0°	A *3	Pass
			(4) 100% dip for 5 seconds (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:70% or less of rated current(at 200VAC)

\*3 Output Current:50% or less of rated current(at 200VAC)

### <Notes>

Power supply shall not 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.