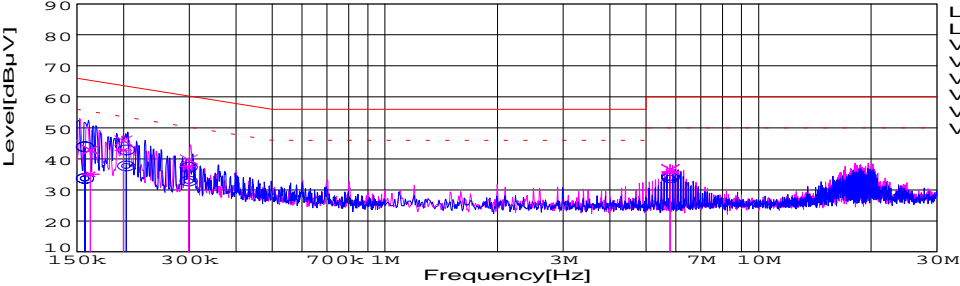
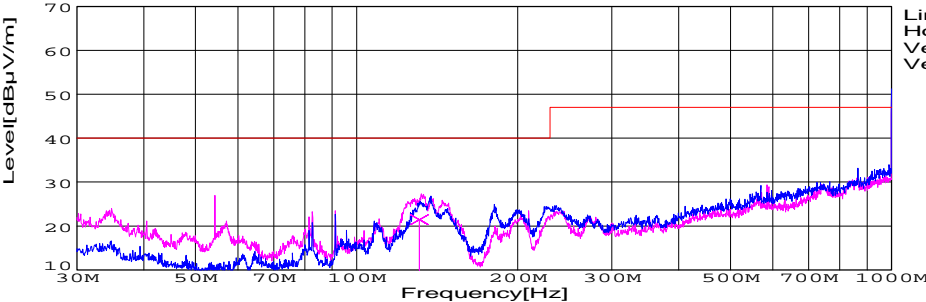


Approved : *K. Inohara*Prepared : *Akito Joboji*

No.	Test item	Conditions	Conditions of Acceptability	Result
1	Line conduction	(1) Rated input(AC100V,120V,230V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$	(1)Meets the undermentioned standard. FCC Part15 classB , VCCI classB CISPR22 classB , EN55022-B EN55011-B	OK
2	Radiated emission	(1) Rated input(AC100V,120V,230V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$	(1)Meets the undermentioned standard. FCC Part15 classB , VCCI classB CISPR22 classB , EN55022-B EN55011-B	OK
3	Harmonic current (EN61000-3-2)	(1) Rated input (AC100V,230V) (2) Load 0 - Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$	(1)Meets the undermentioned standard. EN61000-3-2 classA	OK
4	Static electricity immunity test (EN61000-4-2)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Contact discharge voltage 8[kV] (Level 4)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
5	Radiated, radio-frequency, electromagnetic field immunity test (EN61000-4-3)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4)Testing field strength 10[V/m] (Level 3)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
6	Electrical fast transient/ burst immunity test (EN61000-4-4)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Test peak voltage 4[kV] (Level 4)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
7	Surge immunity test (EN61000-4-5)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Test voltage Line to line 2[kV] (Level 3) Line to earth 4[kV] (Level 4)	(1)The power supply is not stop (2)Circuit does not malfunction. (3)No abnormality of the insulation destruction etc. (4)Parts are no damaged.	OK
8	Immunity to conducted disturbances, induced by radio-frequency fields (EN61000-4-6)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Voltage level (e.m.f.) 10[V] (Level 3)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
9	Power frequency magnetic field immunity test (EN61000-4-8)	(1) Rated input (AC230V) (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$ (4) Magnetic field strength 30[A/m] (Level 4)	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK
10	Voltage dips, short interruptions and voltage variations immunity test (EN61000-4-11)	(1) Rated input (AC230V) •30% reduction at 10mS min. •60% reduction at 100mS min •95% reduction at 5S min. • $\pm 10\%$ variation at 15 minutes (2) Rated load (3) Ambient temp. $25 \pm 10^{\circ}\text{C}$	(1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure	OK

DATA SHEET							Date	20-May-05		
Model	PBW30F-15						Temp.	25 degreeC		
Test	EMI Line conduction & Radiated emission						Humid.	45 %RH		
							Tested by	K.Kosugi		
LINE CONDUCTION										
Model Name : PBW30F-15			Temp. : 25 degreeC							
Model No. :			Humi. : 45 %							
Serial No. :			Date : 2005/5/20 14:55							
Points : 4			Test Equip. : R3132,ESPC							
Detector : PEAK/QP/Ave.			Load Line : 100 mm							
Line Mode : VA/VB			Comment :							
Power Supply : AC 230V 50Hz										
Limit1: [EN 55022] Class B(QP)										
Limit2: [EN 55022] Class B(Ave.)										
							Limit1(QP) Limit2(Ave.) VA(PEAK) VB(PEAK) VA(QP) VA(Ave.) VB(QP) VB(Ave.)			
							AC230V 50Hz +15V 1A -15V 1A			
Frequency [MHz]	Meter Reading (Ave.)[dBuV]	Meter Reading (QP)[dBuV]	Factor [dB]	Level(Ave.) [dBuV]	Level(QP) [dBuV]	Line	Limit(Ave.) [dBuV]	Limit(QP) [dBuV]	Margin(Ave.) [dB]	Margin(QP) [dB]
0.1577	23.7	33.9	10	33.7	43.9	VA	55.6	65.6	21.9	21.7
0.1997	32.7	35.9	10	42.7	45.9	VB	53.6	63.6	10.9	17.7
0.2989	27.5	29.7	10	37.5	39.7	VB	50.3	60.3	12.8	20.6
5.8059	25.3	26.1	10.4	35.7	36.5	VB	50	60	14.3	23.5
RADIATED EMISSION										
Model Name : PBW30F-15			Temp. : 25 degreeC							
Model No. :			Humi. : 45 %							
Serial No. :			Date : 2005/5/20 14:21							
Points : 1			Test Equip. : R3132,ESPC							
Detector : PEAK/QP			Load Line : 100 mm							
Polarization : Vertical			Comment :							
Power Supply : AC 230V 50Hz										
Limit: [EN 55022] Class B<3m>										
							Limit(QP) Horizontal(PEAK) Vertical(PEAK) Vertical(QP)			
							AC230V 50Hz +15V 1A -15V 1A			
Frequency [MHz]	MeterReading (QP)[dBuV]	Ant. Type	Antenna Factor[dB/m]	Cable & Preamp[dB]	Level(QP) [dBuV/m]	Angle [°]	Height[cm]	Polar.	Limit [dBuV/m]	Margin [dB]
131.123	38.3	BL	11.1	-28	21.4	138	102	Vert.	40	18.6