QUALITY CHECKING PROTOCOL FOR PROVISIONAL ACCEPTANCE OF PROTOTYPE OF POWER SUPPLY HVS1

Unit serial number: 001 Date:27.7.2000

Parameter	Field name	Definition	Value	Definition	Value	Measured value	Diference [%]	OK/BAD
Absolute precision								
Ideal output DC voltage level 1 - specified value	U1		X		X	830.00		
Ideal output DC voltage level 2- specified value	U2		X		X	950.00		
Input line voltage 230V, output current 16mA to each output								
Output DC voltage –830V level	UM1	U1-0.25%	827.93	U1+0.25%	832.08	829.94	-0.007	OK
Output DC voltage –950V level	UM2	U2-0.25%	947.63	U2+0.25%	952.38	949.93	-0.007	OK
Line regulation								
Input line voltage 230V – 10 % , output current 16 mA to each output								
Output DC voltage –830V level		UM1-0.01%	829.86	UM1+0.01%	830.02	829.93	-0.001	OK
Output DC voltage –950V level		UM2-0.01%	949.84	UM2+0.01%	950.02	949.93	0.000	OK
Input line voltage 230V + 10 %, output current 16mA to each output								
Output DC voltage –830V level		UM1-0.01%	829.86	UM1+0.01%	830.02	829.93	-0.001	OK
Output DC voltage –950V level		UM2-0.01%	949.84	UM2+0.01%	950.02	949.94	0.001	OK
Load regulation								
Reference voltage for load regulation measurement output curr. 11mA								
Output DC voltage –830V level	UR1					829.96		
Output DC voltage –950V level	UR2					949.94		
Input line voltage 230Voutput current 18mA all channels								
Output DC voltage –830V level		UR1-0.02%	829.79	UR1+0.02%	830.13	829.88	-0.010	OK
Output DC voltage –950V level		UR2-0.02%	949.75	UR2+0.02%	950.13	949.87	-0.007	OK
Input line voltage 230V output current 4 mA all channels								
Output DC voltage –830V level		UR1-0.02%	829.79	UR1+0.02%	830.13	830.07	0.013	OK
Output DC voltage –950V level		UR2-0.02%	949.75	UR2+0.02%	950.13	950.06	0.013	OK
Overcurrent protection								
Protection initiating current			19mA		21mA	19.9		OK
Response time of the current protection			-		<=50ms	not measured		
Undercurrent protection								
Protection initiating current			1.5mA		2.5mA	2.0		OK
Response time of the current protection			-		<=50ms	not measured		
Load characterisation								
Response time of the current protection (channel switched on , capacitive load 1uF)			-		200ms	set by software		OK
Disconnection of the load reported as defect			-		<=100ms	not measured		
Ripple and noise due to switching *			-		20 mVpp	15mVpp		OK
Temperature coefficient			-		(50ppm) /deg C	not measured		
Result								**OK**

* noise measured without channel cards

Measured by : Ivan Hruska