

TEST DATA OF TEPS65F12

Regulated DC Power Supply
October.3. 2023

Approved by : Satoshi Uetani
Design Manager

Prepared by : Riku Nishimura
Design Engineer

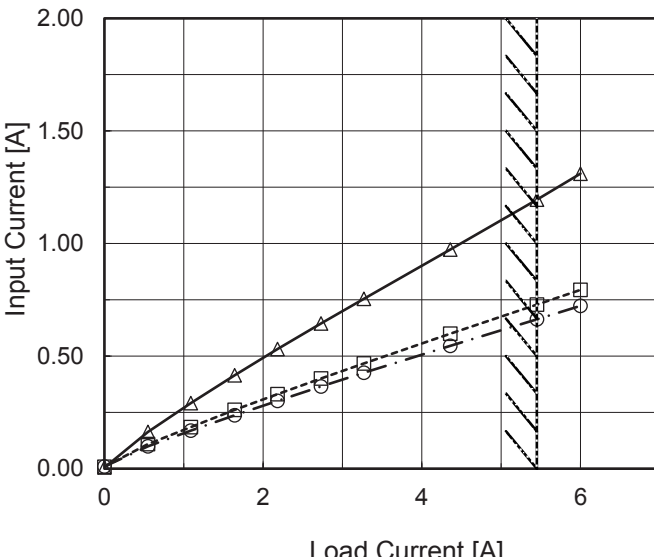
COSEL CO.,LTD.

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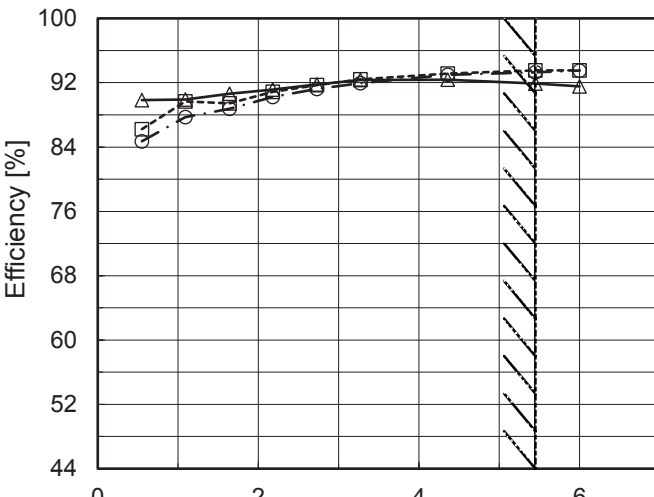
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Model		TEPS65F12		Temperature 25°C																																																				
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																				
Object		_____																																																						
1.Graph		<div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div> 		2.Values																																																				
		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Input Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>0.005</td><td>0.008</td><td>0.009</td></tr><tr><td>0.55</td><td>0.164</td><td>0.110</td><td>0.099</td></tr><tr><td>1.09</td><td>0.291</td><td>0.185</td><td>0.169</td></tr><tr><td>1.64</td><td>0.414</td><td>0.261</td><td>0.237</td></tr><tr><td>2.18</td><td>0.531</td><td>0.330</td><td>0.301</td></tr><tr><td>2.73</td><td>0.645</td><td>0.401</td><td>0.364</td></tr><tr><td>3.27</td><td>0.755</td><td>0.468</td><td>0.426</td></tr><tr><td>4.36</td><td>0.973</td><td>0.599</td><td>0.545</td></tr><tr><td>5.45</td><td>1.194</td><td>0.729</td><td>0.664</td></tr><tr><td>6.00</td><td>1.310</td><td>0.794</td><td>0.723</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>				Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	0.005	0.008	0.009	0.55	0.164	0.110	0.099	1.09	0.291	0.185	0.169	1.64	0.414	0.261	0.237	2.18	0.531	0.330	0.301	2.73	0.645	0.401	0.364	3.27	0.755	0.468	0.426	4.36	0.973	0.599	0.545	5.45	1.194	0.729	0.664	6.00	1.310	0.794	0.723	--	-	-	-
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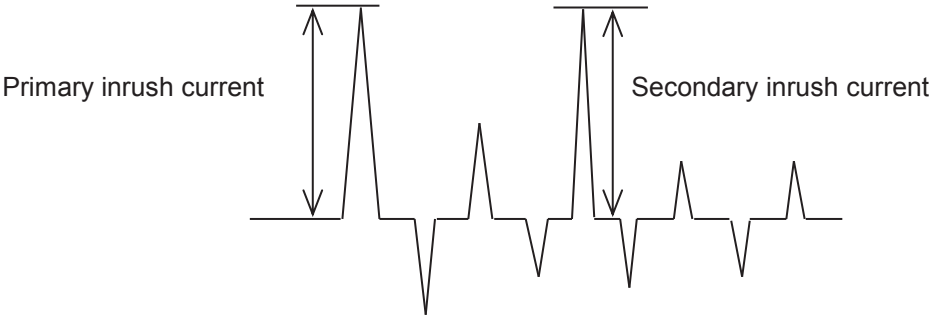
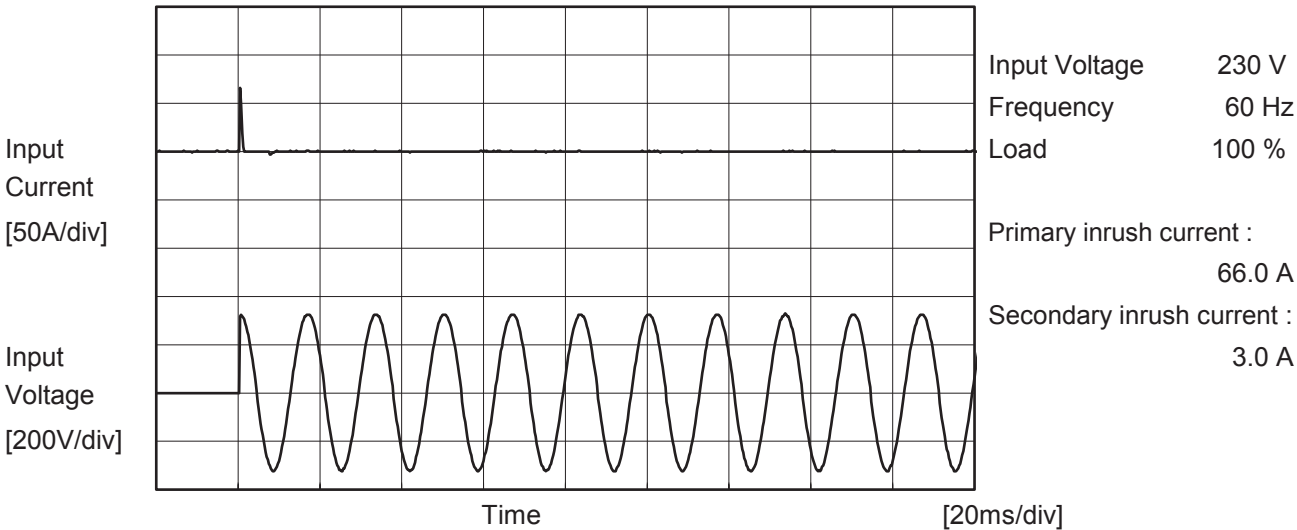
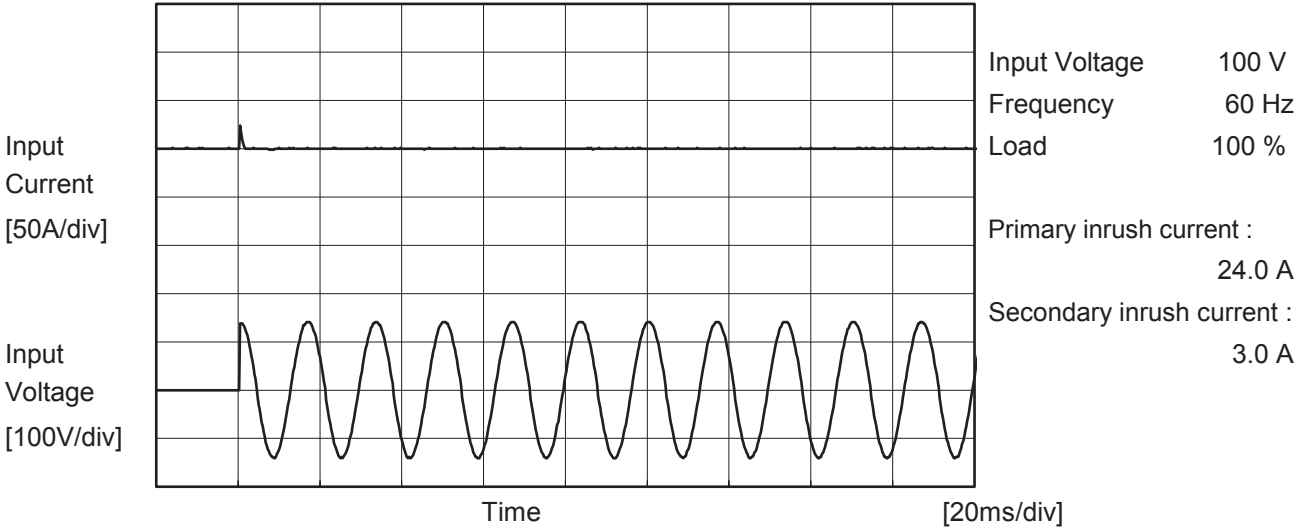
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Model		TEPS65F12	
Item		Inrush Current	Temperature 25°C Testing Circuitry Figure A
Object			





Model		TEPS65F12	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		_____	

1.Results

[mA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	230 [V]	264 [V]	
DEN-AN	Figure C-1	Both phases	0.03	0.07	0.08	Operation
		One of phases	0.04	0.11	0.12	Stand by
IEC62368-1	Figure C-2	Both phases	0.03	0.07	0.08	Operation
		One of phases	0.04	0.11	0.12	Stand by
	Figure C-3	Both phases	0.03	0.07	0.08	Operation
		One of phases	0.04	0.11	0.12	Stand by

The value for "One of phases" is the reference value only.

2.Condition

Leakage current value is concluded after measuring both phases of AC input and by choosing the larger one.



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Item	Line Regulation	Temperature	25°C																																
Object	+12V5.45A	Testing Circuitry	Figure A																																
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<div><div><div><div>---□---</div><div>Load 50%</div></div><div><div>—△—</div><div>Load 100%</div></div></div><div><div><div>Output Voltage [V]</div><div>12.40</div><div>12.30</div><div>12.20</div><div>12.10</div><div>12.00</div><div>11.90</div><div>11.80</div><div>11.70</div></div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div><div><div>Input Voltage [V]</div></div></div></div>		<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Output Voltage [V]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>85</td><td>12.106</td><td>-</td></tr><tr><td>100</td><td>12.106</td><td>12.104</td></tr><tr><td>115</td><td>12.106</td><td>12.104</td></tr><tr><td>200</td><td>12.106</td><td>12.103</td></tr><tr><td>230</td><td>12.105</td><td>12.103</td></tr><tr><td>264</td><td>12.106</td><td>12.103</td></tr><tr><td>280</td><td>12.106</td><td>12.103</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table>		Input Voltage [V]	Output Voltage [V]		Load 50%	Load 100%	85	12.106	-	100	12.106	12.104	115	12.106	12.104	200	12.106	12.103	230	12.105	12.103	264	12.106	12.103	280	12.106	12.103	--	-	-	--	-	-
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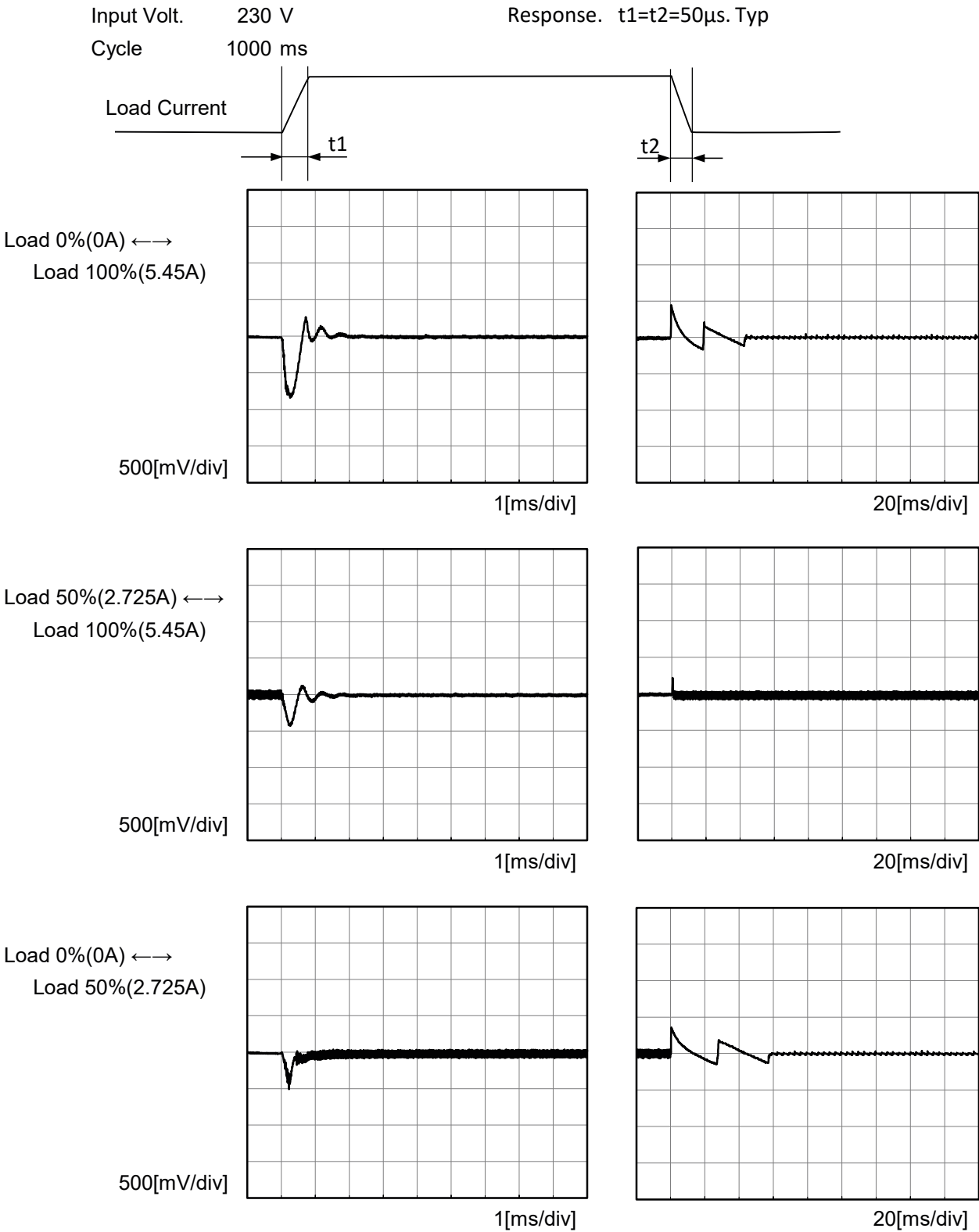
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Object		+12V5.45A		Testing Circuitry Figure B																																																				
1.Graph		<div><div><div>Input Voltage230V</div><div>Load100%</div></div><div><p>50[mV/div]</p><p>40[μs/div]</p></div></div>																																																						

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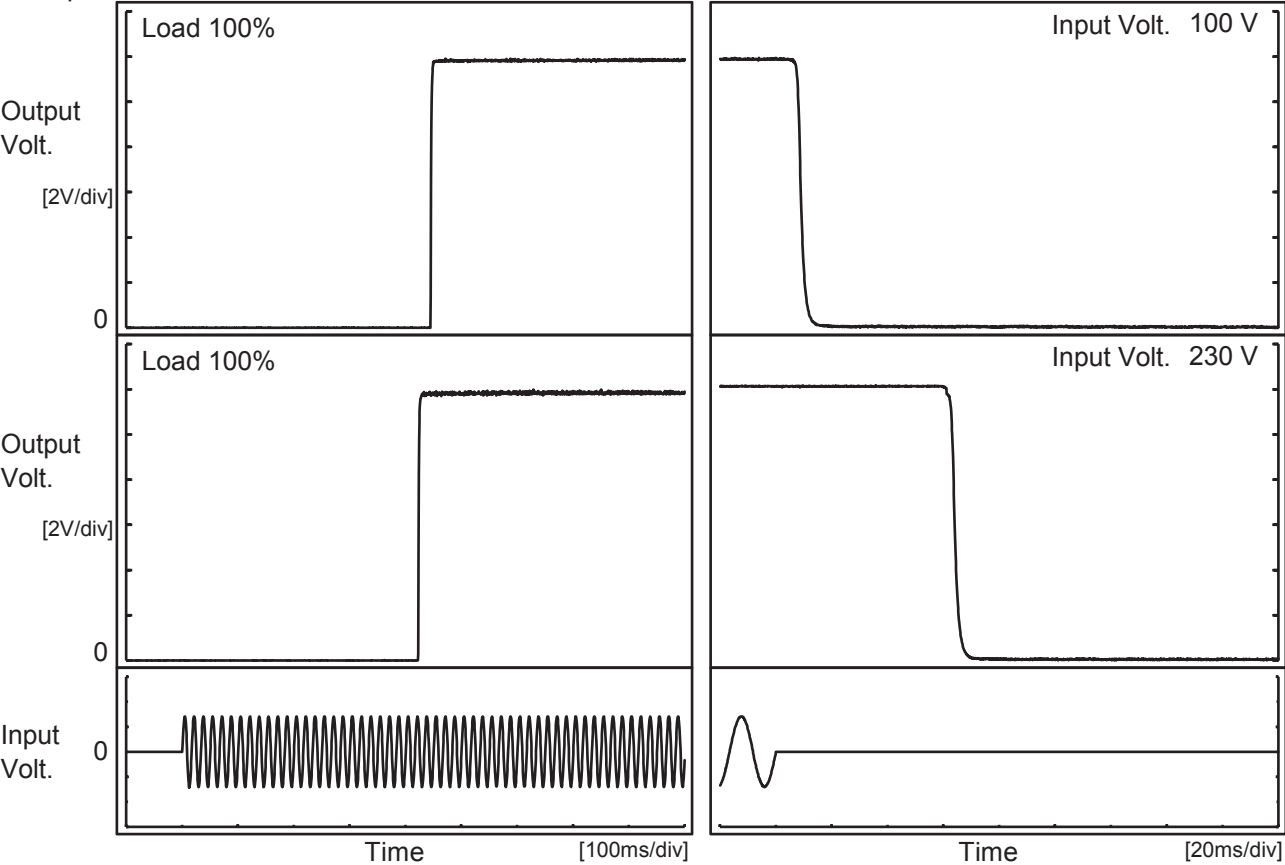
Model		TEPS65F12	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+12V5.45A	





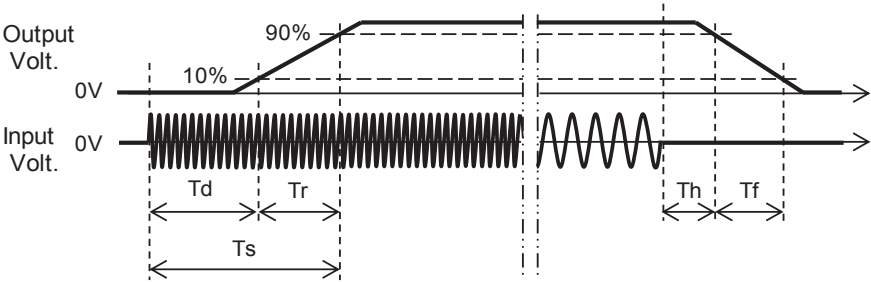
Model		TEPS65F12	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+12V5.45A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100 V		445.5	2.5	448.0	7.9	3.1
230 V		423.5	2.0	425.5	62.9	3.3





Model	TEPS65F12		
Item	Hold-Up Time	Temperature	25°C
		Testing Circuitry	Figure A
Object	+12V5.45A		
1.Graph		2.Values	
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<div>ModelTEPS65F12</div> <div>ItemInstantaneous Interruption Compensation</div> <div>Object+12V5.45A</div>		<div>Temperature25°C</div> <div>Testing CircuitryFigure A</div>																																																			
<div>1.Graph</div> <div><div><div><div><div>—△—</div><div>Input Volt.</div><div>100V</div></div><div><div>---□---</div><div>Input Volt.</div><div>200V</div></div><div><div>---○---</div><div>Input Volt.</div><div>230V</div></div></div><div><div>Instantaneous Compensation Time [ms]</div><div>Load Current [A]</div></div></div></div>		<div>2.Values</div> <table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Time [ms]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.00</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.55</td><td>113</td><td>477</td><td>635</td></tr><tr><td>1.09</td><td>55</td><td>243</td><td>326</td></tr><tr><td>1.64</td><td>36</td><td>162</td><td>217</td></tr><tr><td>2.18</td><td>26</td><td>121</td><td>163</td></tr><tr><td>2.73</td><td>20</td><td>96</td><td>130</td></tr><tr><td>3.27</td><td>15</td><td>80</td><td>108</td></tr><tr><td>4.36</td><td>10</td><td>57</td><td>80</td></tr><tr><td>5.45</td><td>6</td><td>45</td><td>62</td></tr><tr><td>6.00</td><td>5</td><td>39</td><td>55</td></tr><tr><td>--</td><td>-</td><td>-</td><td>-</td></tr></table>	Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.00	-	-	-	0.55	113	477	635	1.09	55	243	326	1.64	36	162	217	2.18	26	121	163	2.73	20	96	130	3.27	15	80	108	4.36	10	57	80	5.45	6	45	62	6.00	5	39	55	--	-	-	-
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<div>Note: Slanted line shows the range of the rated load current.</div>																																																					



Model		TEPS65F12	Temperature 25°C Testing Circuitry Figure A																																								
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Object		+12V5.45A																																									
1.Graph			2.Values																																								
<div><div><div></div><div>Input Volt. 100V</div></div><div><div></div><div>Input Volt. 230V</div></div></div> <p>Note: Slanted line shows the range of the rated load current.</p> <p>Overcurrent protection is Hiccup mode.</p>																																											
<table><tr><th rowspan="2">Output Voltage [V]</th><th colspan="2">Load Current [A]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>12.0</td><td>6.39</td><td>6.70</td></tr><tr><td>11.4</td><td>-</td><td>-</td></tr><tr><td>10.8</td><td>-</td><td>-</td></tr><tr><td>9.6</td><td>-</td><td>-</td></tr><tr><td>8.4</td><td>-</td><td>-</td></tr><tr><td>7.2</td><td>-</td><td>-</td></tr><tr><td>6.0</td><td>-</td><td>-</td></tr><tr><td>4.8</td><td>-</td><td>-</td></tr><tr><td>3.6</td><td>-</td><td>-</td></tr><tr><td>2.4</td><td>-</td><td>-</td></tr><tr><td>1.2</td><td>-</td><td>-</td></tr><tr><td>0.0</td><td>-</td><td>-</td></tr></table>			Output Voltage [V]	Load Current [A]		Input Volt. 100[V]	Input Volt. 230[V]	12.0	6.39	6.70	11.4	-	-	10.8	-	-	9.6	-	-	8.4	-	-	7.2	-	-	6.0	-	-	4.8	-	-	3.6	-	-	2.4	-	-	1.2	-	-	0.0	-	-
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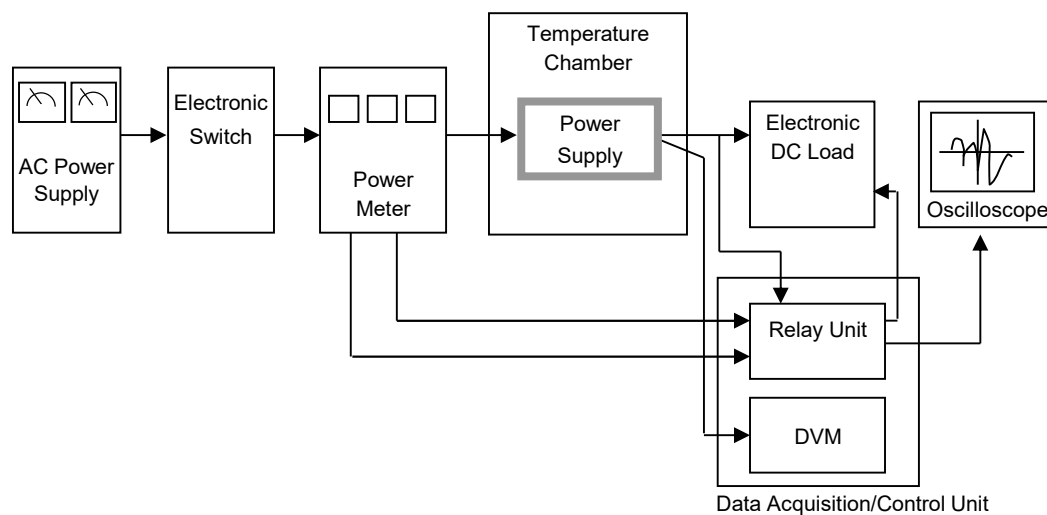


Figure A

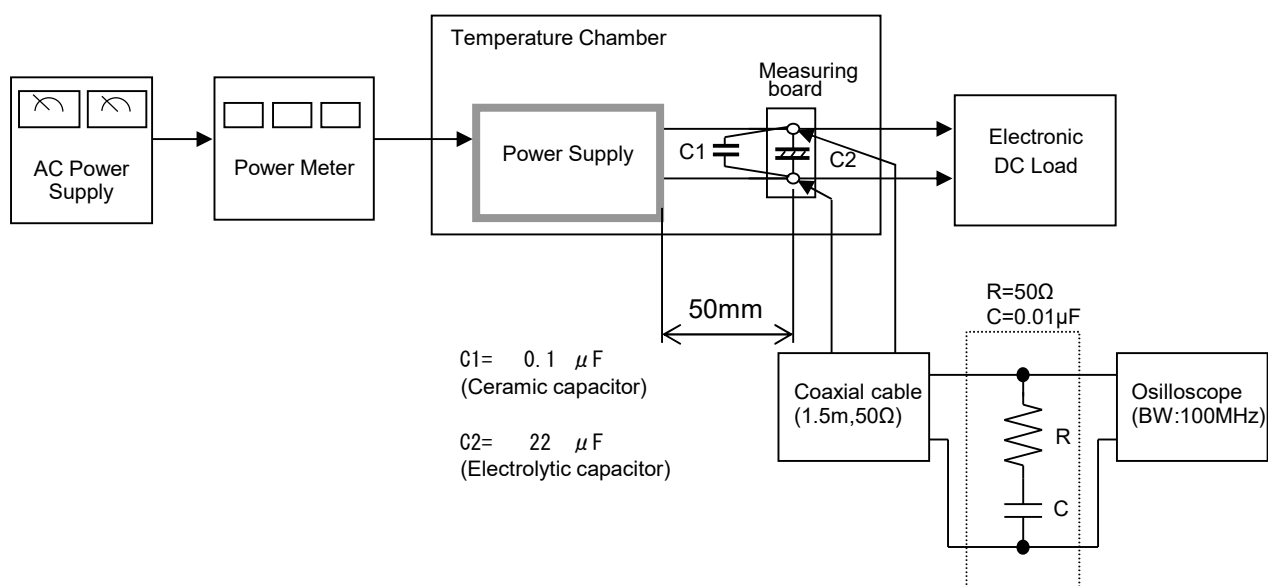


Figure B

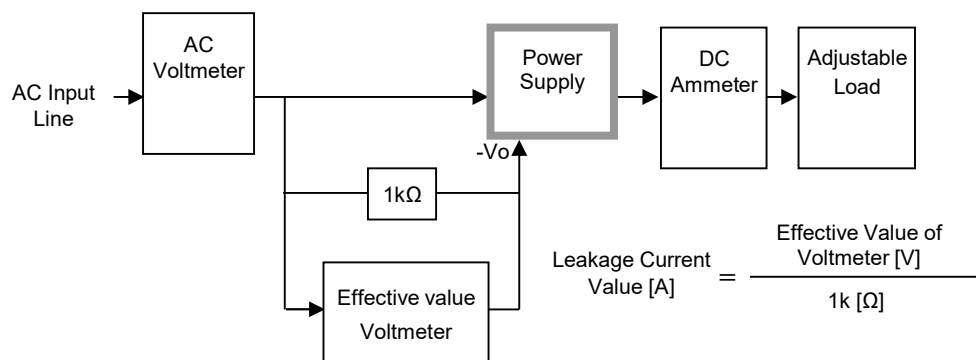


Figure C-1 (DEN-AN)

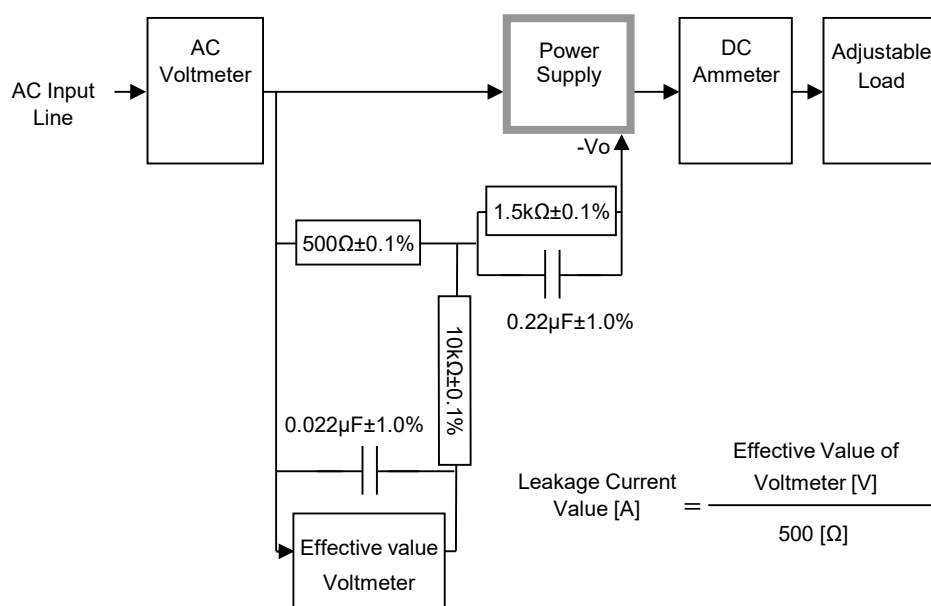


Figure C-2 (IEC62368-1 refer to IEC60990 Fig.4)

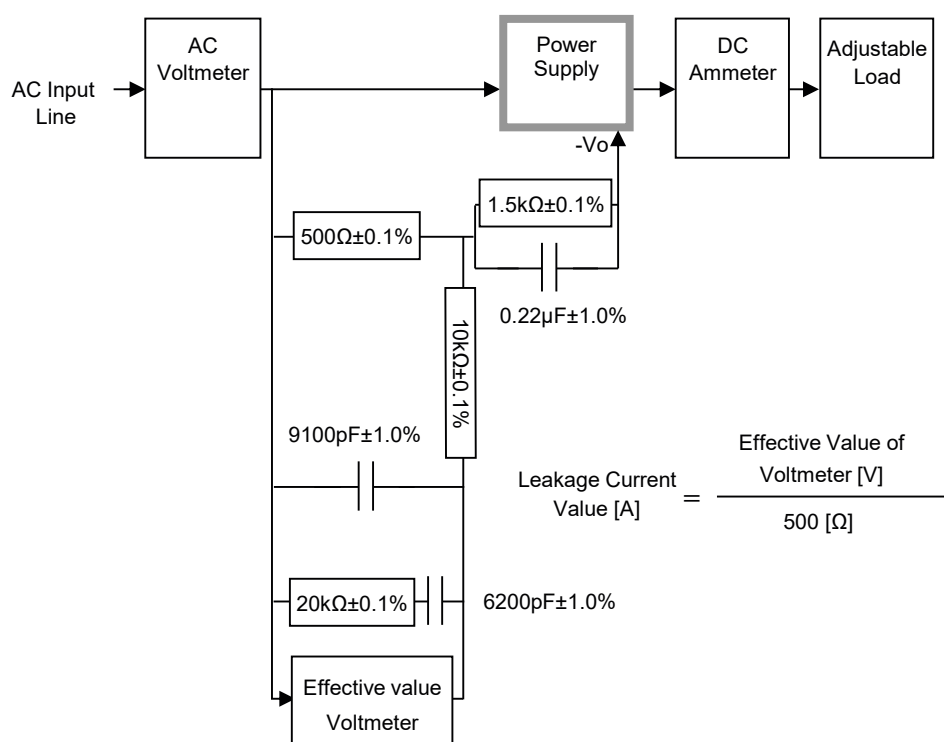


Figure C-3 (IEC62368-1 refer to IEC60990 Fig.5)