

TEST DATA OF TEPS10F05

Regulated DC Power Supply
February 28, 2025

Approved by : Tetsuro Hirata
Design Manager

Prepared by : Junichi Otsubo
Design Engineer

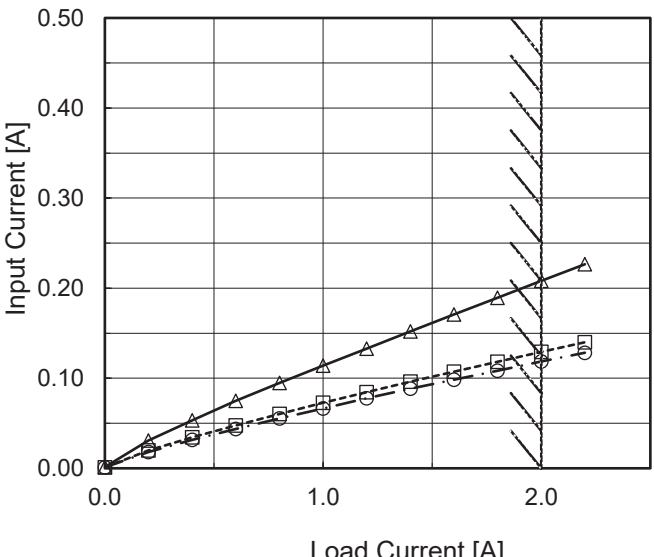
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Model		TEPS10F05		Temperature 25°C																																																								
Item		Input Current (by Load Current)		Testing Circuitry Figure A																																																								
Object		_____																																																										
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>  <p>Input Current [A]</p> <p>Load Current [A]</p>		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>0.0</td><td>0.001</td><td>0.001</td><td>0.001</td></tr><tr><td>0.2</td><td>0.031</td><td>0.020</td><td>0.018</td></tr><tr><td>0.4</td><td>0.053</td><td>0.034</td><td>0.032</td></tr><tr><td>0.6</td><td>0.075</td><td>0.048</td><td>0.044</td></tr><tr><td>0.8</td><td>0.095</td><td>0.060</td><td>0.055</td></tr><tr><td>1.0</td><td>0.114</td><td>0.073</td><td>0.066</td></tr><tr><td>1.2</td><td>0.133</td><td>0.085</td><td>0.078</td></tr><tr><td>1.4</td><td>0.152</td><td>0.096</td><td>0.088</td></tr><tr><td>1.6</td><td>0.171</td><td>0.107</td><td>0.098</td></tr><tr><td>1.8</td><td>0.189</td><td>0.118</td><td>0.108</td></tr><tr><td>2.0</td><td>0.208</td><td>0.129</td><td>0.119</td></tr><tr><td>2.2</td><td>0.227</td><td>0.140</td><td>0.128</td></tr></table>				Load Current [A]	Input Current [A]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.001	0.001	0.001	0.2	0.031	0.020	0.018	0.4	0.053	0.034	0.032	0.6	0.075	0.048	0.044	0.8	0.095	0.060	0.055	1.0	0.114	0.073	0.066	1.2	0.133	0.085	0.078	1.4	0.152	0.096	0.088	1.6	0.171	0.107	0.098	1.8	0.189	0.118	0.108	2.0	0.208	0.129	0.119	2.2	0.227	0.140	0.128
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Model		TEPS10F05		Temperature Testing Circuitry	25°C Figure A																																																					
Item		Efficiency (by Load Current)																																																								
Object		_____																																																								
1.Graph		<div><div><div>—△—</div>Input Volt. 100V</div><div><div>---□---</div>Input Volt. 200V</div><div><div>-·-○-·-</div>Input Volt. 230V</div></div>		2.Values																																																						
<div><div>Efficiency [%]</div><div>Load Current [A]</div></div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Efficiency [%]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.2</td><td>80.3</td><td>77.8</td><td>76.2</td></tr><tr><td>0.4</td><td>83.0</td><td>81.1</td><td>80.2</td></tr><tr><td>0.6</td><td>83.3</td><td>82.5</td><td>81.5</td></tr><tr><td>0.8</td><td>83.4</td><td>83.2</td><td>82.5</td></tr><tr><td>1.0</td><td>83.5</td><td>83.6</td><td>82.8</td></tr><tr><td>1.2</td><td>83.6</td><td>83.7</td><td>82.8</td></tr><tr><td>1.4</td><td>83.3</td><td>83.9</td><td>83.1</td></tr><tr><td>1.6</td><td>83.1</td><td>84.2</td><td>83.7</td></tr><tr><td>1.8</td><td>83.0</td><td>84.2</td><td>83.9</td></tr><tr><td>2.0</td><td>82.6</td><td>84.2</td><td>83.9</td></tr><tr><td>2.2</td><td>82.5</td><td>84.4</td><td>84.0</td></tr></table>		Load Current [A]	Efficiency [%]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	0.2	80.3	77.8	76.2	0.4	83.0	81.1	80.2	0.6	83.3	82.5	81.5	0.8	83.4	83.2	82.5	1.0	83.5	83.6	82.8	1.2	83.6	83.7	82.8	1.4	83.3	83.9	83.1	1.6	83.1	84.2	83.7	1.8	83.0	84.2	83.9	2.0	82.6	84.2	83.9	2.2	82.5	84.4	84.0
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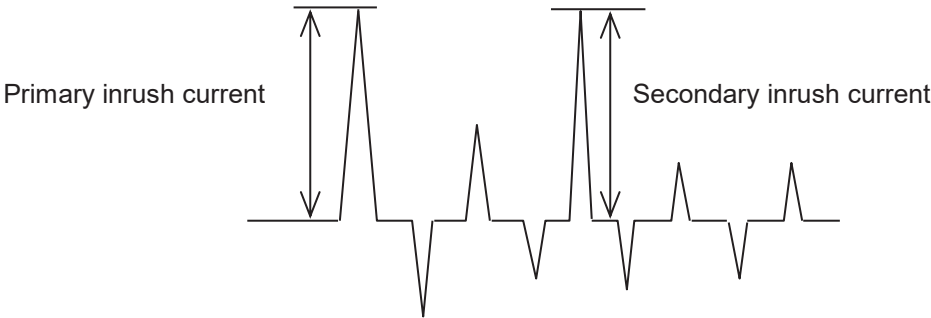
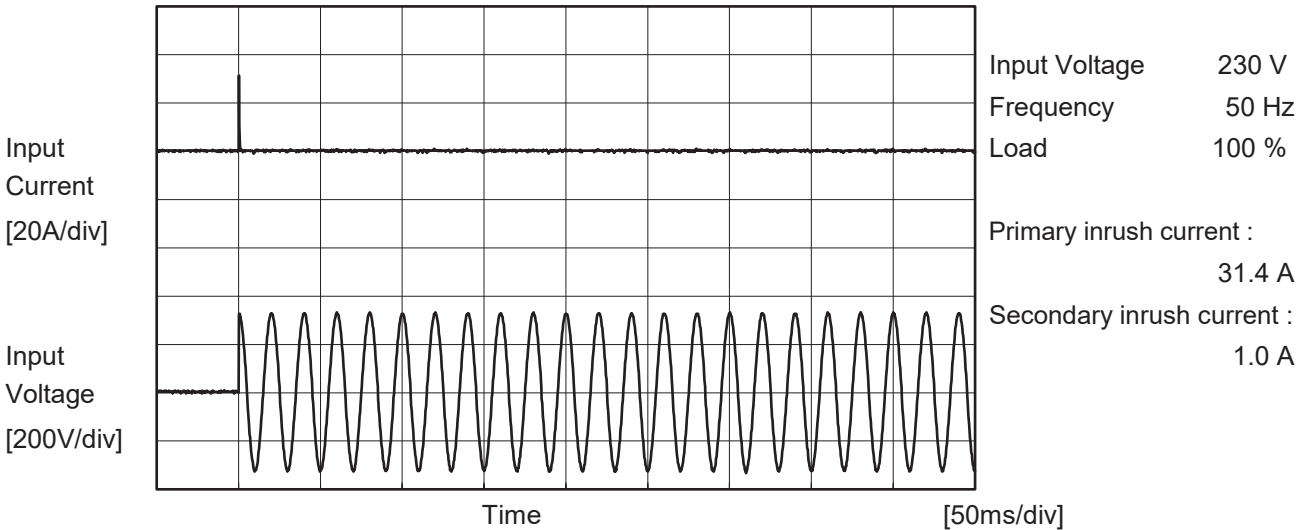
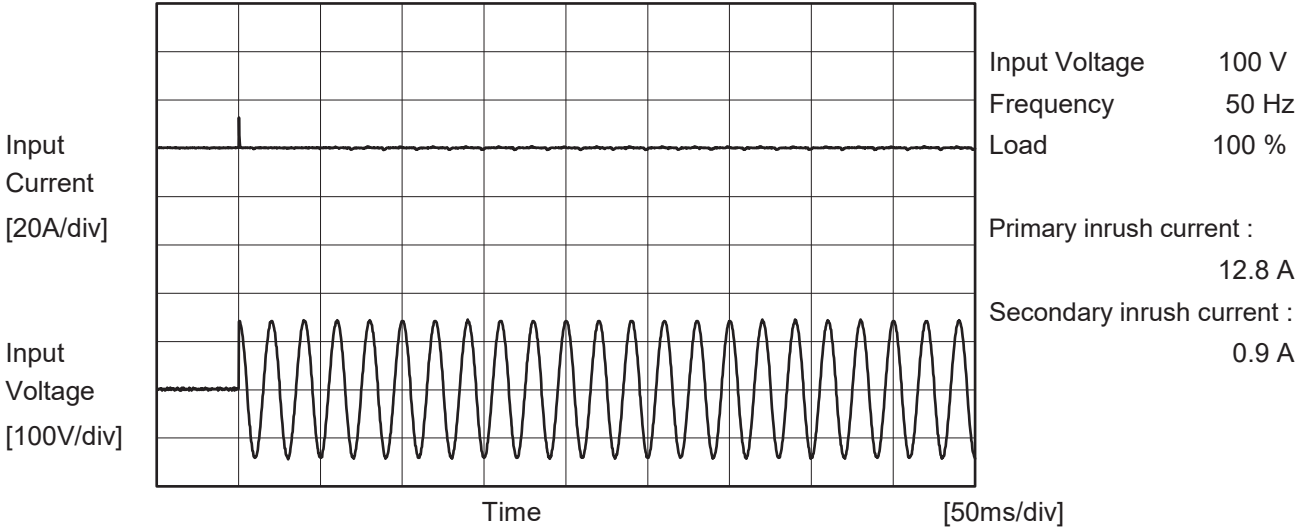
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		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Power Factor</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>0.299</td><td>0.318</td><td>0.315</td></tr><tr><td>0.2</td><td>0.409</td><td>0.328</td><td>0.317</td></tr><tr><td>0.4</td><td>0.456</td><td>0.361</td><td>0.348</td></tr><tr><td>0.6</td><td>0.486</td><td>0.385</td><td>0.369</td></tr><tr><td>0.8</td><td>0.510</td><td>0.403</td><td>0.385</td></tr><tr><td>1.0</td><td>0.529</td><td>0.415</td><td>0.399</td></tr><tr><td>1.2</td><td>0.545</td><td>0.427</td><td>0.408</td></tr><tr><td>1.4</td><td>0.558</td><td>0.438</td><td>0.418</td></tr><tr><td>1.6</td><td>0.569</td><td>0.447</td><td>0.426</td></tr><tr><td>1.8</td><td>0.579</td><td>0.455</td><td>0.434</td></tr><tr><td>2.0</td><td>0.587</td><td>0.463</td><td>0.441</td></tr><tr><td>2.2</td><td>0.594</td><td>0.470</td><td>0.448</td></tr></table>				Load Current [A]	Power Factor			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	0.299	0.318	0.315	0.2	0.409	0.328	0.317	0.4	0.456	0.361	0.348	0.6	0.486	0.385	0.369	0.8	0.510	0.403	0.385	1.0	0.529	0.415	0.399	1.2	0.545	0.427	0.408	1.4	0.558	0.438	0.418	1.6	0.569	0.447	0.426	1.8	0.579	0.455	0.434	2.0	0.587	0.463	0.441	2.2	0.594	0.470	0.448
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Model		TEPS10F05	
Item		Inrush Current	
Object		Temperature 25°C Testing Circuitry Figure A	





Model		TEPS10F05	Temperature 25°C Testing Circuitry Figure C
Item		Leakage Current	
Object		_____	

1.Results

[μA]

Standards	Testing Circuitry	Measuring Method	Input Volt.			Note
			100 [V]	230 [V]	264 [V]	
DEN-AN	Figure C-1	Both phases	24	47	53	Operation
		One of phases	28	69	81	Stand by
IEC62368-1	Figure C-2	Both phases	19	44	52	Operation
		One of phases	28	69	81	Stand by
	Figure C-3	Both phases	19	45	52	Operation
		One of phases	28	69	81	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.



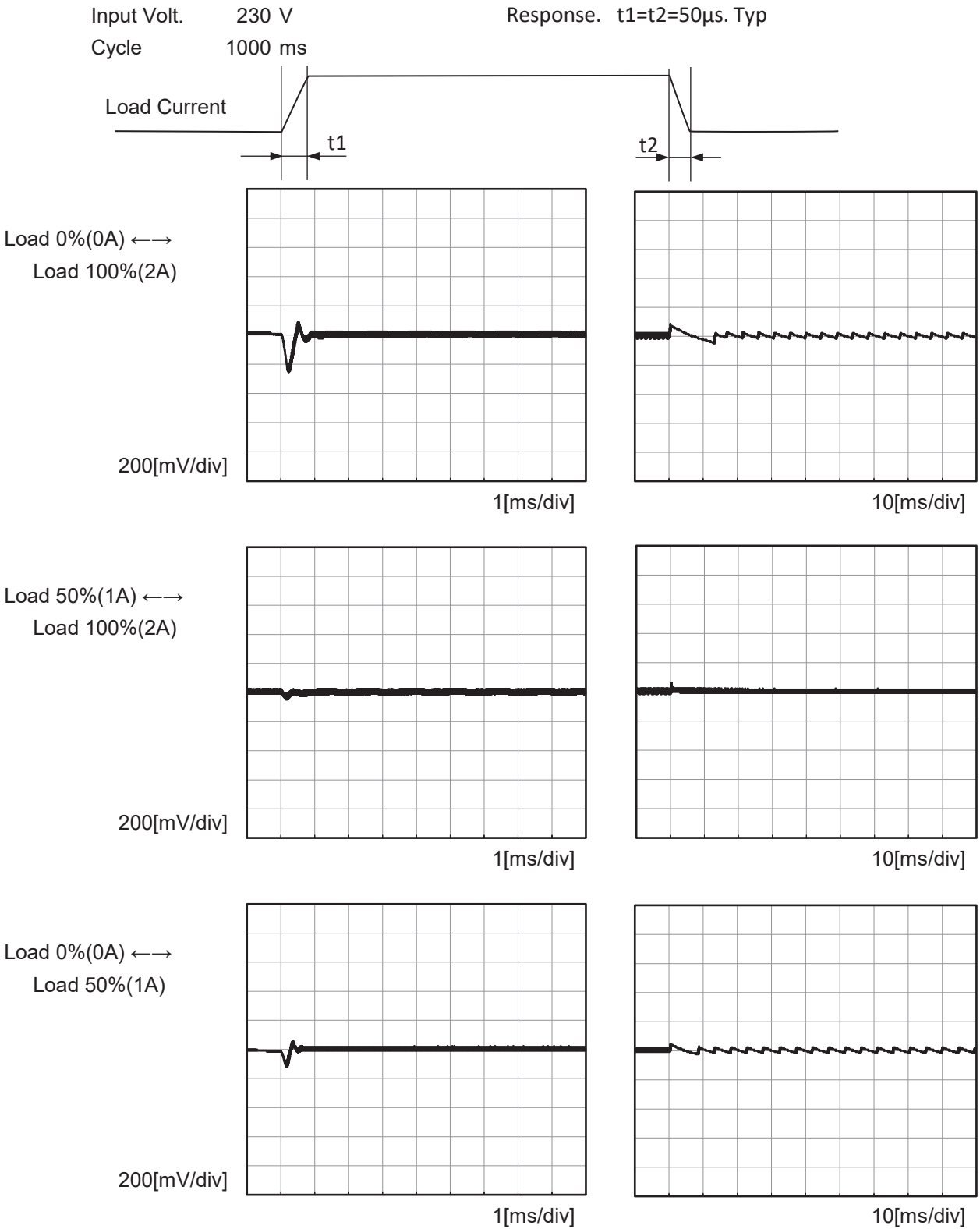
<div>LOVEL</div>			
Model	TEPS10F05		
Item	Line Regulation	Temperature	25°C
Object	+5V2A	Testing Circuitry	Figure A
1.Graph		2.Values	
<div><div><div><div><div>---</div><div>□</div><div>---</div></div><div>Load 50%</div></div><div><div>—</div><div>△</div><div>—</div></div><div>Load 100%</div></div><div><div><div>Output Voltage [V]</div><div><div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div><div>5.00</div><div>4.98</div><div>4.96</div></div><div><div>50</div><div>100</div><div>150</div><div>200</div><div>250</div><div>300</div></div></div><div><div>Input Voltage [V]</div></div></div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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COSEL

Model	TEPS10F05																																																									
Item	Load Regulation	Temperature	25°C																																																							
Object	+5V2A	Testing Circuitry	Figure A																																																							
1.Graph		2.Values																																																								
<div><div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div><div><div><div></div><div></div></div><div></div></div></div><div>Input Volt. 100V</div><div>Input Volt. 200V</div><div>Input Volt. 230V</div></div> <div><div><div>5.10</div><div>5.08</div><div>5.06</div><div>5.04</div><div>5.02</div><div>5.00</div><div>4.98</div><div>4.96</div></div><div><div>0.0</div><div>1.0</div><div>2.0</div></div><div>Output Voltage [V]</div><div>Load Current [A]</div></div> <div>Note: Slanted line shows the range of the rated load current.</div>		<table><tr><th rowspan="2">Load Current [A]</th><th colspan="3">Output Voltage [V]</th></tr><tr><th>Input Volt. 100[V]</th><th>Input Volt. 200[V]</th><th>Input Volt. 230[V]</th></tr><tr><td>0.0</td><td>5.054</td><td>5.053</td><td>5.054</td></tr><tr><td>0.2</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>0.4</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>0.6</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>0.8</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>1.0</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>1.2</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>1.4</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>1.6</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>1.8</td><td>5.054</td><td>5.054</td><td>5.054</td></tr><tr><td>2.0</td><td>5.053</td><td>5.054</td><td>5.054</td></tr><tr><td>2.2</td><td>5.053</td><td>5.053</td><td>5.054</td></tr></table>		Load Current [A]	Output Voltage [V]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	5.054	5.053	5.054	0.2	5.054	5.054	5.054	0.4	5.054	5.054	5.054	0.6	5.054	5.054	5.054	0.8	5.054	5.054	5.054	1.0	5.054	5.054	5.054	1.2	5.054	5.054	5.054	1.4	5.054	5.054	5.054	1.6	5.054	5.054	5.054	1.8	5.054	5.054	5.054	2.0	5.053	5.054	5.054	2.2	5.053	5.053	5.054
Load Current [A]	Output Voltage [V]																																																									
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Item	Ripple-Noise	Temperature	25°C																																																							
Object	+5V2A	Testing Circuitry	Figure B																																																							
1.Graph																																																										
<div><div><div>Input Voltage</div><div>230V</div></div><div><div>Load</div><div>100%</div></div></div> <div><div><div>20[mV/div]</div><div></div></div><div><div></div><div>4[μs/div]</div></div></div>																																																										



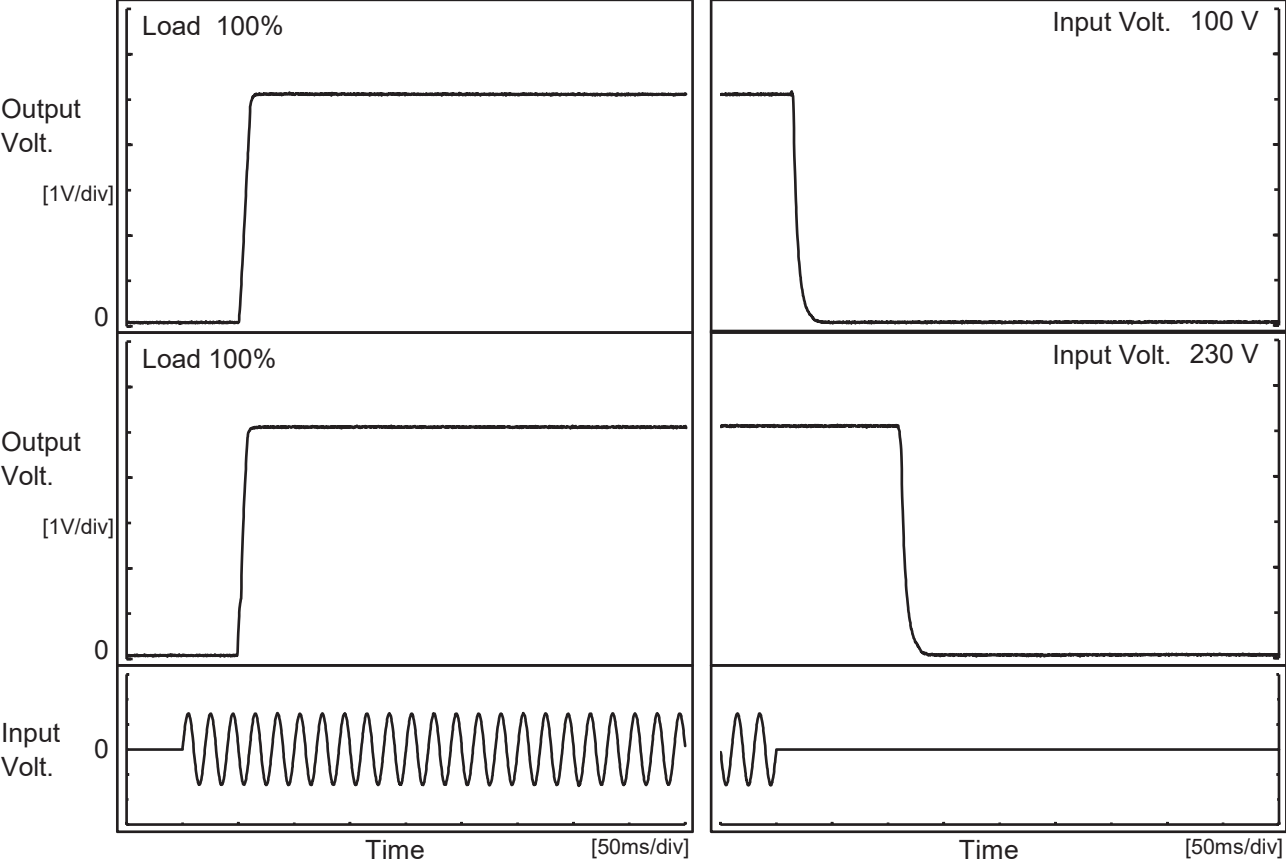
Model		TEPS10F05	Temperature 25°C Testing Circuitry Figure A
Item		Dynamic Load Response	
Object		+5V2A	





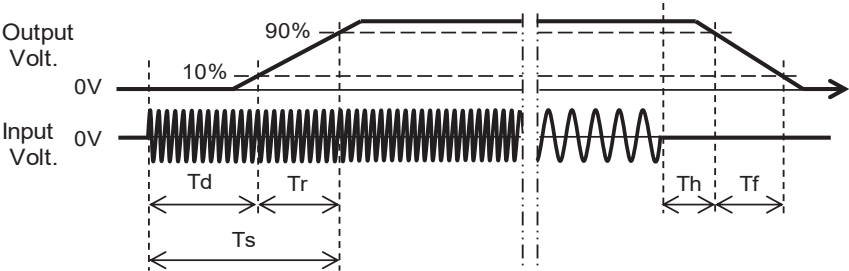
Model		TEPS10F05	Temperature 25°C Testing Circuitry Figure A
Item		Rise and Fall Time	
Object		+5V2A	

1.Graph



2.Values

		[ms]				
Input Volt.	Time	Td	Tr	Ts	Th	Tf
100V		51.5	8.5	60.0	15.8	9.5
230V		49.5	7.8	57.3	112.0	9.8





<div>ModelTEPS10F05</div>																																																																	
Item	Hold-Up Time	Temperature	25°C																																																														
		Testing Circuitry	Figure A																																																														
Object	+5V2A																																																																
<div>1.Graph<div><div><div></div><div>Load 50%</div></div><div><div></div><div>Load 100%</div></div></div><table><tr><th>Input Voltage [V]</th><th>Load 50% [ms]</th><th>Load 100% [ms]</th></tr><tr><td>85</td><td>24</td><td>9</td></tr><tr><td>100</td><td>36</td><td>15</td></tr><tr><td>115</td><td>50</td><td>22</td></tr><tr><td>200</td><td>170</td><td>82</td></tr><tr><td>230</td><td>228</td><td>110</td></tr><tr><td>264</td><td>306</td><td>149</td></tr><tr><td>280</td><td>347</td><td>170</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table></div>		Input Voltage [V]	Load 50% [ms]	Load 100% [ms]	85	24	9	100	36	15	115	50	22	200	170	82	230	228	110	264	306	149	280	347	170	--	-	-	--	-	-	<div>2.Values<table><tr><th rowspan="2">Input Voltage [V]</th><th colspan="2">Hold-Up Time [ms]</th></tr><tr><th>Load 50%</th><th>Load 100%</th></tr><tr><td>85</td><td>24</td><td>9</td></tr><tr><td>100</td><td>36</td><td>15</td></tr><tr><td>115</td><td>50</td><td>22</td></tr><tr><td>200</td><td>170</td><td>82</td></tr><tr><td>230</td><td>228</td><td>110</td></tr><tr><td>264</td><td>306</td><td>149</td></tr><tr><td>280</td><td>347</td><td>170</td></tr><tr><td>--</td><td>-</td><td>-</td></tr><tr><td>--</td><td>-</td><td>-</td></tr></table></div>		Input Voltage [V]	Hold-Up Time [ms]		Load 50%	Load 100%	85	24	9	100	36	15	115	50	22	200	170	82	230	228	110	264	306	149	280	347	170	--	-	-	--	-	-
Input Voltage [V]	Load 50% [ms]	Load 100% [ms]																																																															
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<div>This duration covers from Shut-off of input voltage to the moment when output voltage descends to the rated range of voltage accuracy. Note: Slanted line shows the range of the rated input voltage.</div>																																																																	

Model		TEPS10F05		Temperature Testing Circuitry	25°C Figure A																																																							
Item		Instantaneous Interruption Compensation																																																										
Object		+5V2A																																																										
1.Graph				2.Values																																																								
<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> <p>Instantaneous Compensation Time [ms]</p> <p>Load Current [A]</p>				<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>0.0</td><td>-</td><td>-</td><td>-</td></tr><tr><td>0.2</td><td>196</td><td>1026</td><td>1379</td></tr><tr><td>0.4</td><td>97</td><td>426</td><td>693</td></tr><tr><td>0.6</td><td>63</td><td>285</td><td>382</td></tr><tr><td>0.8</td><td>46</td><td>213</td><td>287</td></tr><tr><td>1.0</td><td>36</td><td>169</td><td>229</td></tr><tr><td>1.2</td><td>28</td><td>141</td><td>189</td></tr><tr><td>1.4</td><td>24</td><td>119</td><td>162</td></tr><tr><td>1.6</td><td>20</td><td>104</td><td>141</td></tr><tr><td>1.8</td><td>17</td><td>92</td><td>125</td></tr><tr><td>2.0</td><td>15</td><td>82</td><td>111</td></tr><tr><td>2.2</td><td>13</td><td>72</td><td>99</td></tr></table>		Load Current [A]	Time [ms]			Input Volt. 100[V]	Input Volt. 200[V]	Input Volt. 230[V]	0.0	-	-	-	0.2	196	1026	1379	0.4	97	426	693	0.6	63	285	382	0.8	46	213	287	1.0	36	169	229	1.2	28	141	189	1.4	24	119	162	1.6	20	104	141	1.8	17	92	125	2.0	15	82	111	2.2	13	72	99
Load Current [A]	Time [ms]																																																											
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Note: Slanted line shows the range of the rated load current.																																																												

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BC-12090

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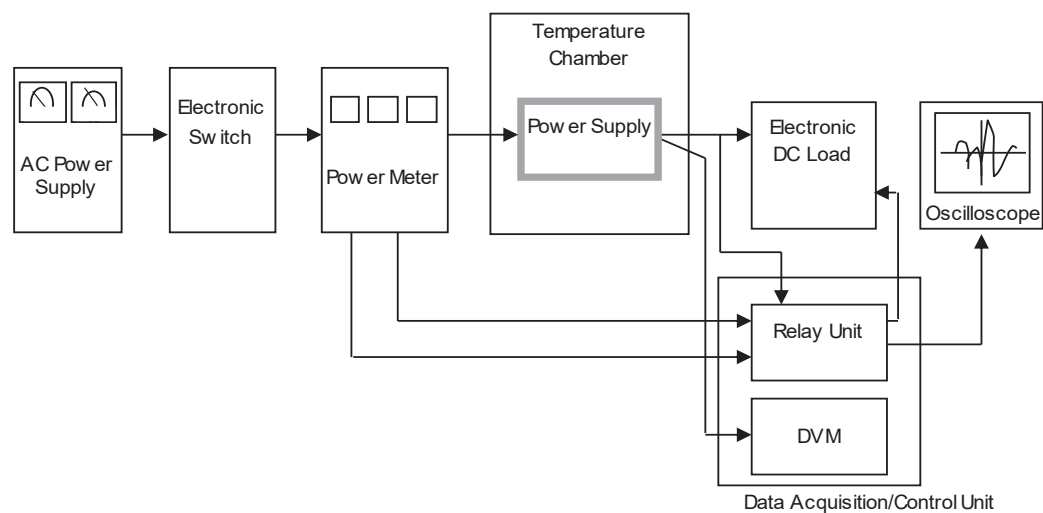


Figure A

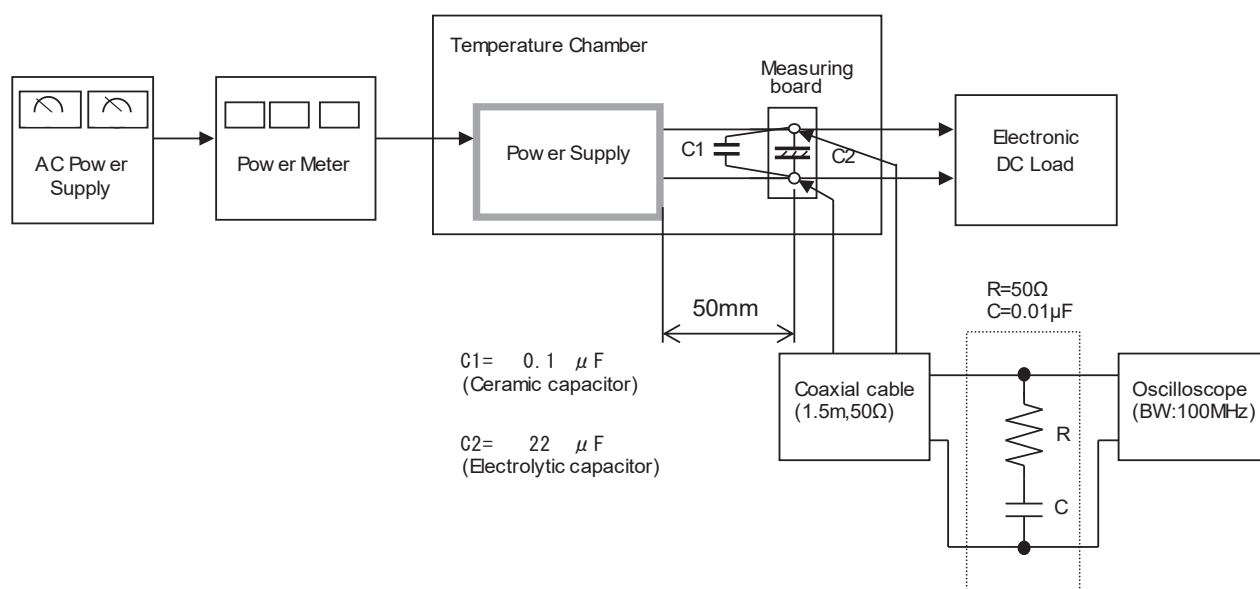


Figure B

