## APPENDIX A: SPECIFICATIONS (continued)

MODEL	PPS 8-6D	PPS 18-4D	PPS 35-2D	PPS 30-3D	PPS 60-1D	PPS 128.05D			
AC INPUT	One rear panel mounted switch permits operation of 115 or 230(240) Vac line voltage.								
Input Current									
115 VAC	2.7A	2.7A	2.6A	3A	2.6A	2.6A			
230 VAC	1.4A	1.35A	1.3A	1.5A	1,3A ·	1.3A			
Fuse Rating		AC input is protected by a rear panel mounted fuse.							
115 VAC	4A	4A	4A	5A	4A	4A			
230 VAC	2A	2A	2A	2.5A	2A	2A			
Amplitude	115/230 Vac ± 10	115/230 Vac ± 10% or 240 Vac ± 10%							
Frequency	50 to 60 Hz								
Maximum VA	315VA	315VA	299VA	343VA	299VA	299VA			
Maximum Power	240W	240W	232W	268W	232W	232W			
Peak Inrush Current	30A	30A	30A	60A	30A	30A			
DC OUTPUT MAXIMU	M RATINGS			-					
Voltage	8V	18V	35V	30V	60V	128V			
Current	6A	4A	2A	3A	1A	0.5A			
DC OUTPUT PROGRA	AMMING RANGE								
Voltage	0-8V	0-18V	0-35V	0-30V	0-60V	0-128V			
Current	0-6A	0-4A	0-2A	0-3A	0-1A	0-0.5A			
PROGRAMMING RES	OLUTION (LSB)	Voltage and curr	ent programming ar	e monotonic over fu	Il temperature range	9.			
Voltage	2mV	5mV	10mV	10mV	20mV	40mV			
Current	2mA	1.5mA	0.6mA	1mA	0.4mA	0.25mA			
OVP	50mV	100mV	200mV	200mV	400mV	800mV			
PROGRAMMING ACCURACY		If the unit is recalibrated at a temperature other than 25°C, these specifications apply over a temperature band of ±5°C around calibration temperature.							
Voltage	0.05% +2LSB	0.05% +2LSB	0.05% +2LSB	0.05% +2LSB	0.05% +2LSB	0.05% +2LSE			
Current	0.15% +5LSB	0.15% +5LSB	0.15% +5LSB	0.15% +5LSB	0.15% +5LSB	0.15% +5LSE			
OVP	2.4% + 0.3V	2.4% + 0.6V	2.4% + 1.3V	2.4% + 1.3V	2.4% + 2.5V	2.4% + 5V			
LOAD EFFECT			Load effect is defined as the maximum change in output due to a load change up to the maximum voltage or current rating.						
Voltage	0.001% +1mV	0.001% +1mV	0.001% +1mV	0.001% + 1mV	0.001% + 1mV	0.001% + 1m			
Current	1mA	1mA	1mA	1mA	1mA	0.1mA			

Specifications are subject to change without notice.

## APPENDIX A: SPECIFICATIONS (continued)

MODEL	PPS 8-6D	PPS 18-4D	PPS 35-2D	PPS 30-3D	PPS 60-1D	PPS 128-0.5D		
SOURCE EFFECT		Maximum output	change for a line vo	ltage change within	rating.			
Voltage	1mV	1mV	1mV	1mV	1mV	1mV		
Current	1mA	1mA	1mA	1mA	1mA	0,1mA		
PARD (PERIODIC AND	RANDOM DEVIA	TION AND NOISE)	-					
RMS/PK-PK (20Hz - 20	MHz) with output u	ngrounded.						
Voltage	1mVms/10mVp-p	1mVrms/10mVp-p	1mVms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p		
Current	1mArms	1mArms	1mArms	1mArms	1mArms	0.5mArms		
TEMPERATURE COEFFICIENT		The temperature coefficient is defined as the change in output per degree Celsius; after a 30 minute warm-up period.						
Voltage	100ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C	100ppm/°C		
Current	200ppm/°C	200ppm/°C	200ppm/°C	200ppm/°C	200ppm/°C	200ppm/°C		
DRIFT (STABILITY)			d as the change in operature after a 30 n		hour interal under c od.	onstant line, load,		
Voltage	0.01% + 1mV	0.01% + 1mV	0.01% + 3mV	0.01% + 3mV	0.01% + 6mV	0.01% + 10mV		
Current	0.1% + 6mA	0.1% + 5mA	0.1% + 2mA	0.1% + 3mA	0.1% + 1mA	0.1% + 0.5mA		
LOAD TRANSIENT RE	SPONSE		for the output volta nal voltage, within a		a band of 0.1% of r d current.	ated voltage		
Recovery Time	50us	50us	50us	50us	50us	50us		
		programming cor	nmand processing t	me. LSB is the max	imum time for the o	utput voitage to		
		vary within ±0.02 output from 10%	5% of a final value. to 90 % or to 10% o	UP and DOWN time f its total excursion	s are the maximum value.	times for the		
	10ms/15ms	vary within ±0.02 output from 10% 10ms/15ms	5% of a final value. to 90 % or to 10% o 10ms/15ms	UP and DOWN time f its total excursion to 10ms/15ms	s are the maximum value. 15ms/20ms	times for the 50ms/70ms		
LSB	20ms/30ms	vary within ±0.02 output from 10%	5% of a final value. to 90 % or to 10% o	UP and DOWN time f its total excursion	s are the maximum value.	times for the		
LSB READBACK RESOLU	20ms/30ms	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms	5% of a final value. to 90 % or to 10% o 10ms/15ms 20ms/30ms	UP and DOWN time f its total excursion 10ms/15ms 20ms/30ms	es are the maximum value. 15ms/20ms 30ms/40ms	50ms/70ms 80ms/100ms		
Tup/Tdn LSB READBACK RESOLU* Voltage	20ms/30ms FION 2mV	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms	UP and DOWN time f its total excursion 10ms/15ms 20ms/30ms	as are the maximum value. 15ms/20ms 30ms/40ms 20mV	50ms/70ms 80ms/100ms		
LSB READBACK RESOLU <sup>*</sup> Voltage Current	20ms/30ms FION 2mV 4mA	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms 5mV 2mA	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms 10mV 1mA	UP and DOWN time f its total excursion 10ms/15ms 20ms/30ms 10mV 0.8mA	as are the maximum value. 15ms/20ms 30ms/40ms 20mV 0.4mA	50ms/70ms 80ms/100ms 40mV 0.2mA		
LSB READBACK RESOLU <sup>*</sup> Voltage Current	20ms/30ms FION 2mV 4mA	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms 5mV 2mA If the unit is recal	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA	UP and DOWN time f its total excursion 10ms/15ms 20ms/30ms  10mV 0.8mA ature other than 25°0	s are the maximum value. 15ms/20ms 30ms/40ms 20mV 0.4mA C, these specificatio	50ms/70ms 80ms/100ms 40mV 0.2mA		
LSB READBACK RESOLU* Voltage Current READBACK ACCURA	20ms/30ms FION 2mV 4mA CY	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms 5mV 2mA If the unit is recal temperature band	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  dibrated at a tempera	UP and DOWN time  f its total excursion  10ms/15ms 20ms/30ms  10mV 0.8mA  ature other than 25°C	as are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA C, these specifications.	50ms/70ms 80ms/100ms 40mV 0.2mA ns apply over a		
LSB READBACK RESOLU* Voltage Current READBACK ACCURA  Voltage	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms 5mV 2mA If the unit is recal temperature band 0.1% + 2LSB	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  librated at a tempera d of ±5°C around ca 0.1% + 2LSB	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA sture other than 25°C libration temperature 0.1% + 2LSB	s are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA  C, these specifications.  0.1% + 2LSB	50ms/70ms 80ms/100ms 40mV 0.2mA ns apply over a 0.1% + 2LSB		
LSB READBACK RESOLU* Voltage Current READBACK ACCURA*  Voltage Current	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB 0.2% + 5LSB	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms 5mV 2mA If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  dibrated at a tempera	UP and DOWN time  f its total excursion  10ms/15ms 20ms/30ms  10mV 0.8mA  ature other than 25°C	as are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA C, these specifications.	50ms/70ms 80ms/100ms 40mV 0.2mA ns apply over a		
LSB READBACK RESOLU* Voltage Current READBACK ACCURA  Voltage Current	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB 0.2% + 5LSB	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms  5mV 2mA  If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  iibrated at a temperati of ±5°C around ca 0.1% + 2LSB 0.2% + 5LSB	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA sture other than 25°C libration temperature 0.1% + 2LSB 0.2% + 5LSB	s are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA  C, these specifications.  0.1% + 2LSB	50ms/70ms 80ms/100ms 40mV 0.2mA ns apply over a 0.1% + 2LSB 0.2% + 5LSB		
LSB READBACK RESOLUT Voltage Current READBACK ACCURAT  Voltage Current READBACK TEMPERA  Voltage	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB 0.2% + 5LSB	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms  5mV 2mA  If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB  ENT The readback ter after a 30 minute	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  iibrated at a temperati of ±5°C around ca 0.1% + 2LSB 0.2% + 5LSB	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA sture other than 25°C libration temperature 0.1% + 2LSB 0.2% + 5LSB	s are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA C, these specifications.  0.1% + 2LSB 0.2% + 5LSB ariation in reading p	50ms/70ms 80ms/100ms 40mV 0.2mA ns apply over a 0.1% + 2LSB 0.2% + 5LSB		
LSB READBACK RESOLUT Voltage Current READBACK ACCURAT  Voltage Current READBACK TEMPERA  Voltage Current Current	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB 0.2% + 5LSB ATURE COEFFICIE	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms  5mV 2mA  If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB  ENT The readback ter after a 30 minute 100ppm + 4mV 200ppm + 4mA	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  dibrated at a temperat of ±5°C around ca 0.1% + 2LSB 0.2% + 5LSB  mperature coefficien warm-up. 100ppm + 8mV	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA ature other than 25°C libration temperature 0.1% + 2LSB 0.2% + 5LSB t is defined as the vice 100ppm+ 10mV 200ppm + 3mA	s are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA  C, these specifications.  0.1% + 2LSB 0.2% + 5LSB  ariation in reading p  100ppm+ 20mV 200ppm + 1mA	times for the  50ms/70ms 80ms/100ms  40mV 0.2mA  ns apply over a  0.1% + 2LSB 0.2% + 5LSB  er degree Celsius		
LSB READBACK RESOLUT Voltage Current READBACK ACCURAT  Voltage Current READBACK TEMPERA  Voltage Current Current	20ms/30ms FION 2mV 4mA CY  0.1% + 2LSB 0.2% + 5LSB ATURE COEFFICIE  100ppm + 2mV 200ppm + 6mA	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms  5mV 2mA  If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB  ENT The readback ter after a 30 minute 100ppm + 4mV 200ppm + 4mA Neither output te	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  librated at a temperator ±5°C around ca 0.1% + 2LSB 0.2% + 5LSB  mperature coefficien warn-up.  100ppm + 8mV 200ppm + 2mA rminal may be more	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA ature other than 25°C libration temperature 0.1% + 2LSB 0.2% + 5LSB t is defined as the vice 100ppm+ 10mV 200ppm + 3mA than ±240Vdc from	s are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA  C, these specifications.  0.1% + 2LSB 0.2% + 5LSB  ariation in reading p  100ppm+ 20mV 200ppm + 1mA	times for the  50ms/70ms 80ms/100ms  40mV 0.2mA  ns apply over a  0.1% + 2LSB 0.2% + 5LSB  er degree Ceisius  100ppm+ 40m		
LSB READBACK RESOLUT Voltage Current READBACK ACCURAT  Voltage Current READBACK TEMPERA  Voltage Current OUTPUT ISOLATION	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB 0.2% + 5LSB ATURE COEFFICIE 100ppm + 2mV 200ppm + 6mA	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms  5mV 2mA  If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB  ENT The readback ter after a 30 minute 100ppm + 4mV 200ppm + 4mA	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  iibrated at a temperat of ±5°C around ca 0.1% + 2LSB 0.2% + 5LSB  mperature coefficien warm-up. 100ppm + 8mV 200ppm + 2mA	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA ature other than 25°C libration temperature 0.1% + 2LSB 0.2% + 5LSB t is defined as the vice 100ppm+ 10mV 200ppm + 3mA	as are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA C, these specifications.  0.1% + 2LSB 0.2% + 5LSB  ariation in reading positions.  100ppm+ 20mV 200ppm + 1mA chassis ground.	times for the  50ms/70ms 80ms/100ms  40mV 0.2mA  ns apply over a  0.1% + 2LSB 0.2% + 5LSB  er degree Celsius  100ppm+ 40m' 200ppm+0.5m/		
LSB READBACK RESOLU <sup>*</sup> Voltage Current	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB 0.2% + 5LSB ATURE COEFFICIE 100ppm + 2mV 200ppm + 6mA	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms  5mV 2mA  If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB  ENT The readback ter after a 30 minute 100ppm + 4mV 200ppm + 4mA Neither output te	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  librated at a temperator ±5°C around ca 0.1% + 2LSB 0.2% + 5LSB  mperature coefficien warn-up.  100ppm + 8mV 200ppm + 2mA rminal may be more	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA ature other than 25°C libration temperature 0.1% + 2LSB 0.2% + 5LSB t is defined as the vice 100ppm+ 10mV 200ppm + 3mA than ±240Vdc from	as are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA C, these specifications.  0.1% + 2LSB 0.2% + 5LSB  ariation in reading positions.  100ppm+ 20mV 200ppm + 1mA chassis ground.	times for the  50ms/70ms 80ms/100ms  40mV 0.2mA  ns apply over a  0.1% + 2LSB 0.2% + 5LSB  er degree Celsius  100ppm+ 40m\ 200ppm+0.5m/		
LSB READBACK RESOLUT Voltage Current READBACK ACCURAT  Voltage Current READBACK TEMPERA  Voltage Current OUTPUT ISOLATION	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB 0.2% + 5LSB ATURE COEFFICIE 100ppm + 2mV 200ppm + 6mA ± 240Vdc NGS	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms  5mV 2mA  If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB  ENT  The readback ter after a 30 minute 100ppm + 4mV 200ppm + 4mA Neither output te ± 240Vdc  Operating Storage	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  fibrated at a temperation ±5°C around ca 0.1% + 2LSB 0.2% + 5LSB  mperature coefficient warm-up.  100ppm + 8mV 200ppm + 2mA rminal may be more ± 240Vdc	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA ature other than 25°C libration temperature 0.1% + 2LSB 0.2% + 5LSB t is defined as the vice 100ppm+ 10mV 200ppm + 3mA than ±240Vdc	as are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA C, these specifications 0.1% + 2LSB 0.2% + 5LSB ariation in reading pr  100ppm+ 20mV 200ppm + 1mA chassis ground. ± 240Vdc	times for the  50ms/70ms 80ms/100ms  40mV 0.2mA  ns apply over a  0.1% + 2LSB 0.2% + 5LSB  er degree Celsius  100ppm+ 40m\ 200ppm+0.5m/		
LSB READBACK RESOLUT Voltage Current READBACK ACCURAT Voltage Current READBACK TEMPER  Voltage Current OUTPUT ISOLATION  TEMPERATURE RATI	20ms/30ms FION 2mV 4mA CY 0.1% + 2LSB 0.2% + 5LSB ATURE COEFFICIE 100ppm + 2mV 200ppm + 6mA ± 240Vdc NGS	vary within ±0.02 output from 10% 10ms/15ms 20ms/30ms  5mV 2mA  If the unit is recal temperature band 0.1% + 2LSB 0.2% + 5LSB  ENT  The readback ter after a 30 minute 100ppm + 4mV 200ppm + 4mA Neither output te ± 240Vdc  Operating Storage	5% of a final value. to 90 % or to 10% of 10ms/15ms 20ms/30ms  10mV 1mA  librated at a temperat of ±5°C around ca 0.1% + 2LSB 0.2% + 5LSB  mperature coefficient warm-up. 100ppm + 8mV 200ppm + 2mA rminal may be more ± 240Vdc  0°C to 50°C -40°C to 70°C	UP and DOWN time f its total excursion of 10ms/15ms 20ms/30ms  10mV 0.8mA ature other than 25°C libration temperature 0.1% + 2LSB 0.2% + 5LSB t is defined as the vice 100ppm+ 10mV 200ppm + 3mA than ±240Vdc	as are the maximum value.  15ms/20ms 30ms/40ms  20mV 0.4mA C, these specifications 0.1% + 2LSB 0.2% + 5LSB ariation in reading pr  100ppm+ 20mV 200ppm + 1mA chassis ground. ± 240Vdc	times for the  50ms/70ms 80ms/100ms  40mV 0.2mA  ns apply over a  0.1% + 2LSB 0.2% + 5LSB  er degree Celsius  100ppm+ 40m' 200ppm+0.5m/		

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