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PPS SERIES SPECIFICATIONs

The following lists the performance specifications for the American Reliance Inc., Linear Programmable DC Power Supply Series. **All specifications are at rear terminals with a resistive load, and local sensing unless otherwise stated.** All specifications apply over the full operating temperature range of 0deg to 50deg C unless otherwise specified.

MODEL	**PPS8-10**	**PPS18-4**	**PPS30-2.5**	**PPS35-2**	**PPS60-1**	**PPS128-0.5**
AC INPUT	One internal switch permits operation of 115 or 230(240) Vac line voltage.					
Input Current						
115VAC	2.24A	1.5A	1.5A	1.5A	1.32A	1.3A
230VAC	1.12A	0.75A	0.75A	0.75A	0.66A	0.6A
Fuse Rating	AC input is protected by a rear panel mounted fuse.					
115VAC	4A	2.5A	2.5A	2.5A	2.5A	2.5A
230VAC	2A	1.25A	1.25A	1.25A	1.25A	1.25A
Maximum VA	152VA	173VA	173VA	173VA	152VA	152VA
Maximum Power	120W	141W	141W	141W	120W	120W
Peak Inrush Current	18A	20A	20A	20A	18A	18A
DC OUTPUT MAXIMUM RATINGS						
Voltage	8V	18V	30V	35V	60V	128V
Current	10A	4A	2.5A	2A	1A	0.5A
DC OUTPUT PROGRAMMING RANGE						
Voltage	0-8V	0-18V	0-30V	0-35V	0-60V	0-128V
Current	0-10A	0-4A	0-2.5A	0-2A	0-1A	0-0.5A
PROGRAMMING RESOLUTION (LSB)	Voltage and current programming are monotonic over full temperature range.					
Voltage	2mV	5mV	10mV	10mV	20mV	40mV
Current	4mA	2mA	1mA	0.6mA	0.4mA	0.25mA
OVP	50mV	100mV	200mV	200mV	400mV	800mV
Voltage	0.05%+2LSB	0.05% +2LSB	0.05% +2LSB	0.05% +2LSB	0.05% +2LSB	0.05% +2LSB
Current	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB
OVP	2.4%+0.3%	2.4%+0.6V	2.4%+1.3V	2.4%+1.3V	2.4%+2.5V	2.4%+5V
EXTERNAL ANALOG PROGRAMMING GAIN						
Voltage	0.8V/V	1.8V/V	3V/V	3.5V/V	6V/V	12.8V/V
Current	1A/V	0.4A/V	0.25A/V	0.2A/V	0.1A/V	0.05A/V
EXTERNAL ANALOG PROGRAMMING ACCURACY						
Voltage	0.1%+4mV	0.1%+10mV	0.1%+20mV	0.1%+20mV	0.1%+40mV	0.1%+80mV
Current	0.1%+12mA	0.1%+6mA	0.1%+3mA	0.1%+3mA	0.1%+1mA	0.1%+0.5mA
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%+1mV
Current	1mA	1mA	1mA	1mA	1mA	0.1mA
Remote sense operation is possible with up to 0.5V drop for positive and negative output load leads.						

PPS SERIES SPECIFICATIONs

MODEL	PPS8-10	PPS18-4	PPS30-2.5	PPS35-2	PPS60-1	PPS128-0.5
SOURCE EFFECT		Maximum output change for a line voltage change within rating.				
Voltage	1mV	1mV	1mV	1mV	1mV	1mV
Current	1mA	1mA	1mA	1mA	1mA	0.1mA
PARD (PERIODIC AND RANDOM DEVIATION AND NOISE) RMS/PK-PK (20Hz - 20MHz) with output ungrounded.						
Voltage	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	2.5mVrms/40mVp-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/℃	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃
Current	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃
DRIFT (STABILITY)		The drift is defined as the change in output over an eight hour internal under constant line, load, and ambient temperature after a 30 minute warm-up period.				
Voltage	0.01%+1mV	0.01%+1mV	0.01%+3mV	0.01%+3mV	0.01%+6mV	0.01%+10mV
Current	0.1%+10mA	0.1%+5mA	0.1%+2mA	0.1%+2mA	0.1%+1mA	0.1%+0.5mA
LOAD TRANSIENT RESPONSE		The time required for the output voltage to recover within a band of 0.1% of rated voltage around the nominal voltage, within a 50% variation in load current.				
Recovery Time	50us	50us	50us	50us	50us	50us
PROGRAMMING UP/DOWN SPEED		The total programming UP/DOWN time is the sum of output voltage response time and the programming command processing time. LSB is the maximum time for the output voltage to vary within 0.025% of a final value. UP and DOWN times are the maximum times for the 10% to 90% or to 10% of its total excursion value.				
Tup/Tdn	3ms/5ms	3ms/5ms	3ms/5ms	3ms/5ms	10ms/15ms	20ms/30ms
LSB	20ms/30ms	20ms/30ms	20ms/30ms	20ms/30ms	30ms/40ms	80ms/100ms
READBACK RESOLUTION						
Voltage	2mV	5mV	10mV	10mV	20mV	40mV
Current	4mA	2mA	1mA	0.8mA	0.4mA	0.2mA
READBACK ACCURACY		If the unit is recalibrated at a temperature other 25℃,these specifications apply over a temperature band of ±5℃around calibration temperature.				
Voltage	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB
Current	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB
READBACK TEMPERATURE COEFFICIENT		The readback temperature coefficient is defined as the variation in reading per degree Celsius after a 30 minute warm-up.				
Voltage	100ppm+2mV	100ppm+4mV	100ppm+8mV	100ppm+10mV	100ppm+20mV	100ppm+40mV
Current	200ppm+12mA	200ppm+4mA	200ppm+3mA	200ppm+3mA	200ppm+1mA	200ppm+0.5mA
OUTPUT ISOLATION		Neither output terminal may be more than 240Vdc from chassis ground.				
	240Vdc	240Vdc	240Vdc	240Vdc	240Vdc	500Vdc
TEMPERATURE RATINGS /HUMIDITY RANGE		Operating	0℃to 40℃/ 30 to 80% RH			
		Storage	-20℃to 70℃/ 20 to 80% RH			
GPIB INTERFACE CAPABILITY		SH1,AH1,T6,TE0,L4,LE0,RL1,SR0,PP0,DC1,DT0,C0,E1				
WEIGHT	18 lbs	16 lbs	16 lbs	16 lbs	16 lbs	16 lbs
DIMENSIONS	8.4" x5.2" x15.7" for all models					

PPS SERIES SPECIFICATIONs

MODEL	PPS250-0.2	PPS250-0.35	PPS250-0.035
AC INPUT			
One internal switch permits operation of 115 or 230(240) Vac line voltage.			
Input Current			
115VAC	1.2A	0.5A	0.5A
230VAC	0.6A	0.25A	0.25A
Fuse Rating : AC input is protected by a rear panel mounted fuse.			
115VAC	2.5A	2.5A	2.5A
230VAC	1.25A	1.25A	1.25A
Amplitude	115/120 Vac or 230/240 Vac 10%	115/120 Vac or 230/240 Vac 10%	
Frequency	50 to 60 Hz	50 to 60 Hz	
Maximum VA	152VA	58VA	35VA
Maximum Power	120W	47W	28W
Peak Inrush Current	18A	15A	13A
DC OUTPUT MAXIMUM RATINGS			
Voltage	250V	35V	35V
Current	0.2A	0.35A	35mA
DC OUTPUT PROGRAMMING RANGE			
Voltage	0-250V	0-35V	0-35V
Current	0-0.2A	0-0.35A	0-35mA
PROGRAMMING RESOLUTION (LSB)			
Voltage and current programming are monotonic over full temperature range.			
Voltage	80mV	10mV	10mV
Current	0.1mA	0.1mA	10uA
OVP	1.6V	200mV	200mV
PROGRAMMING ACCURACY			
If the unit is recalibrated at a temperature other than 25℃, these specifications apply over a temperature band of ±5℃around calibration temperature.			
Voltage	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB
Current	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB
OVP	2.4%+10V	2.4%+1.3V	2.4%+1.3V
EXTERNAL ANALOG PROGRAMMING GAIN			
Voltage	25V/V	3.5V/V	N.A.
Current	0.02A/V	0.035A/V	
EXTERNAL ANALOG PROGRAMMING ACCURACY			
Voltage	0.1%+160mV	0.1%+20mV	N.A.
Current	0.1%+0.3mA	0.1%+0.4mA	
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	
Current	0.1mA	0.1mA	
Remote sense operation is possible with up to 0.5V drop for positive and negative output load leads.			

PPS SERIES SPECIFICATIONs

MODEL	PPS250-0.2	PPS250-0.35	PPS250-0.035
SOURCE EFFECT			
Maximum output change for a line voltage change within rating.			
Voltage	1mV	1mV	1mV
Current	0.1mA	0.1mA	0.1mA
PARD (PERIODIC AND RANDOM DEVIATION AND NOISE)			
RMS/PK-PK (20Hz-20MHz) with output ungrounded.			
Voltage	3mVrms/40mVp-p	1mV/10mVp-p	1mV/10mVp-p
Current	0.2mArms	0.2mArms	0.2mArms
TEMPERATURE COEFFICINT			
The temperature coefficient is defined as the change in output per degree Celsius; after a 30 minute warm-up period.			
Voltage	100ppm/℃	100ppm/℃	100ppm/℃
Current	200ppm/℃	200ppm/℃	200ppm/℃
DRIFT (STABILITY) :	The drift is defined as the change in output over an eight hour internal under constant line, load, and ambient temperature after a 30 minute warm- up period.		
Voltage	0.1%＋20mV	0.01%＋3mV	0.01%＋3mV
Current	0.1%＋0.5mA	0.1%＋0.3mA	0.1%＋0.3mA
LOAD TRANSIENT RESPONSE :	The time required for the output voltage to recover within a band of 0.1% of rated voltage around the nominal voltage , within a 50% variation in load current.		
Recovery Time	50us	50us	50us
PROGRAMMING UP/DOWN SPEED :	The total programming UP/DOWN time is the sum of output voltage response time and the programming command processing time. LSB is the maximum time for the output voltage to vary within 0.025% of a final value. UP and the DOWN times are the maximum times for 10%		
Tup / Tdn	120ms / 130ms	30ms / 40ms	N.A.
LSB	250ms / 400ms	100ms / 120ms	
READBACK ACCURACY :	If the unit is recalibrated at a temperature other 25℃, these specifications apply over a temperature band of ±5℃around calibration temperature.		
Voltage	0.1% + 2LSB	0.1% + 2LSB	0.1% + 2LSB
Current	0.2% + 5LSB	0.2% + 5LSB	0.2% + 5LSB
READBACK RESOLUTION			
Voltage	80mV	10mV	10mV
Current	0.1mA	0.1mA	10uA
READBACK TEMPERATURE COEFFICIENT:			
	The readback temperature coefficient is defined as the variation in reading per degree Celsius after a 30 minute warm-up.		
Voltage	100ppm + 80mV	100ppm + 10mV	100ppm + 10mV
Current	200ppm + 0.2mA	200ppm + 0.2mA	200ppm + 0.2mA
OUTPUT ISOLATION :	Neither output terminal may be more than 240Vdc from chassis ground.		
	500Vdc	240Vdc	240Vdc
TEMPERATURE RATINGS /HUMIDITY RANGE	Operating	0℃ to 40℃/ 30 to 80% RH	
	Storage	-20℃ to 70℃/ 20 to 80% RH	
GPIB INTERFACE CAPABILITY:	SHI,AHI,T6,TE0,L4,LE0,RL1,SR0,PP0,DC1,DT0,C0,E1		
WEIGHT	16 lbs		
DIMENSIONS	8.4"x5.2"x15.7" for all models		

PPS SERIES SPECIFICATIONs

MODEL	PPS35-3R	PPS60-1.5R
AC INPUT	One internal switch permits operation of 115 or 230(240) Vac line voltage.	
Input Current		
115VAC	1.92A	1.92A
230VAC	0.96A	0.96A
Fuse Rating		
115VAC	4A	4A
230VAC	2A	2A
Amplitude	115/120Vac or 230/240Vac 10%	115/120Vac or 230/240Vac 10%
Frequency	50 to 60 Hz	50 to 60 Hz
Maximum VA	221VA	221VA
Maximum Power	192W	192W
Peak Inrush Current	30A	30A
DC OUTPUT MAXIMUM RATINGS		
Voltage	0~17.5V ; 0~35V	0~30V ; 0~60V
Current	0~6A ; 0~3A	0~3A ; 0~1.5A
DC OUTPUT PROGRAMMING RANGE		
Voltage	0~17.5V ; 0~35V	0~30V ; 0~60V
Current	0~6A ; 0~3A	0~3A ; 0~1.5A
PROGRAMMING RESOLUTION (LSB) Voltage and current programming are monatomic over full temperature range.		
Voltage	10mV	20mV
Current	2mA	1mA
OVP	200mV	400mV
PROGRAMMING ACCURACY If the unit is recalibrated at a temperature other than 25℃,these specifications apply over a temperature band of ±5℃ around calibration temperature.		
Voltage	0.05% +2 LSB	0.05% +2 LSB
Current	0.15% +5 LSB	0.15% +5 LSB
OVP	2.4% +0.3V	2.4% +1.3V
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
Current	1mA	1mA
Remote sense operation is possible with up to 0.5V drop for positive and negative output load leads.		

PPS SERIES SPECIFICATIONs

MODEL	PPS35-3R	PPS60-1.5R
SOURCE EFFECT	Maximum output change for a line voltage change within rating.	
Voltage	1mV	1mV
Current	1mA	1mA
PARD (PERIODIC AND RANDOM DEVIATION AND NOISE) RMS/PK-PK (20Hz - 20Mhz) with output ungrounded.		
Voltage	1mVrms/10mVp-p	1mVrms/10mVp-p
Current	1mArms	1mArms
TEMPERATURE COEFFICIENT	The temperature coefficient is defined as the change in output per degree Celsius; after a 30 minute warm-up period.	
Voltage	100ppm/℃	100ppm/℃
Current	200ppm/℃	200ppm/℃
DRIFT (STABILITY)	The drift is defined as the change in output over an eight hour internal under constant line, load, and ambient temperature after a 30 minute warm-up period.	
Voltage	0.01% + 1mV	0.01% +3mV
Current	0.1% +3mA(High);0.1% +6mA(Low)	0.1%+2mA(High);0.1%+3mA(Low)
LOAD TRANSIENT RESPONSE	The time required for the output voltage to recover within a band of 0.1% of rated voltage around the nominal voltage, within a 50% variation in load current.	
Recovery Time	50us	50us
PROGRAMMING UP/DOWN SPEED	The total programming UP/DOWN time is the sum of output voltage response time and the programming command processing time. LSB is the maximum time for the output voltage to vary within 0.025% of a final value. UP and DOWN times are the maximum times for the 10% to 90% or to 10% of its total excursion value.	
Tup/Tdn	3ms/5ms	10ms/15ms
LSB	20ms/30ms	20ms/30ms
READBACK RESOLUTION (LSB)		
Voltage	10mV	20mV
Current	1mA(High);2mA(Low)	0.5mA(High);1mA(Low)
READBACK ACCURACY	If the unit is recalibrated at a temperature other 25℃,these specifications apply over a temperature band of ±5℃around calibration temperature.	
Voltage	0.1% +2LSB	0.1% +2LSB
Current	0.2% +5LSB	0.2% +5LSB
READBACK TEMPERATURE COEFFICIENT	The readback temperature coefficient is defined as the variation in reading per degree Celsius after a 30 minute warm-up.	
Voltage	100ppm+10mV	100ppm+20mV
Current	200ppm+4mA	200ppm+2mA
OUTPUT ISOLATION	Neither output terminal may be more than 240Vdc from chassis ground.	
	240Vdc	240Vdc
TEMPERATURE RATINGS /HUMIDITY RANGE	Operating	0℃to 40℃/ 30 to 80% RH
	Storage	-20℃to 70℃/ 20 to 80% RH
GPIB INTERFACE CAPABILITY	SH1,AH1,T6,TE0,L4,LE0,RL1,SR0,PP0,DC1,DT0,C0,E1	
WEIGHT	18 lbs	18 lbs
DIMENSIONS 8.4" x5.2" x15.7" for all models		

PPS SERIES SPECIFICATIONs

MODEL	PPS8-6D	PPS18-4D	PPS35-2D	PPS30-3D	PPS60-1D	PPS128-0.5D
AC INPUT		One internal switch permits operation of 115 or 230(240) Vac line voltage.				
Input Current						
115VAC	2.7A	2.7A	2.6A	3A	2.6A	2.6A
230VAC	1.4A	1.35A	1.3A	1.5A	1.3A	1.3A
Fuse Rating		AC input is protected by a rear panel mounted fuse.				
115VAC	4A	4A	4A	5A	4A	4A
230VAC	2A	2A	2A	2.5A	2A	2A
Amplitude	115/120 Vac or 230/240 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 MAXIMUM RATINGS						
Voltage	8V	18V	35V	30V	60V	128V
Current	6A	4A	2A	3A	1A	0.5A
DC OUTPUT PROGRAMMING 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 RESOLUTION (LSB)		Voltage and current programming are monotonic over full temperature range.				
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℃, the specifications apply over a temperature band of ±5℃around calibration temperature.				
Voltage	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB
Current	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB
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%+1mV
Current	1mA	1mA	1mA	1mA	1mA	0.1mA
Remote sense operation is possible with up to 0.5V drop for positive and negative output load leads.						

PPS SERIES SPECIFICATIONs

MODEL	PPS8-6D	PPS18-4D	PPS35-2D	PPS30-3D	PPS60-1D	PPS128-0.5D
SOURCE EFFECT		Maximum output change for a line voltage change within rating.				
Voltage	1mV	1mV	1mV	1mV	1mV	1mV
Current	1mA	1mA	1mA	1mA	1mA	0.1mA
PARD(PERIODIC AND RANDOM DEVIATION AND NOISE) RMS/PK-PK(20Hz -20MHz)with output ungrounded.						
Voltage	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	2.5mVrms/40mVp-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 30minute warm-up period.				
Voltage	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃
Current	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃
DRIFT (STABILITY)		The drift is defined as the change in output over an eight hour internal under constant line, load, and ambient temperature after a 30 minute warm-up period.				
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 RESPONSE		The time required for the output voltage to recover within a band of 0.1% of rated voltage around the nominal voltage, within a 50% variation in load current.				
Recovery Time	50us	50us	50us	50us	50us	50us
PROGRAMMING UP/DOWN SPEED		The total programming UP/DOWN time is the sum of output voltage response time and the programming command processing time. LSB is the maximum time for the output voltage to vary within .025% of a final value. UP and DOWN times are the maximum times for the 10% to 90% or to 10% of its total excursion value.				
Tup/Tdn	3ms/5ms	3ms/5ms	3ms/5ms	3ms/5ms	10ms/15ms	20ms/30ms
LSB	20ms/30ms	20ms/30ms	20ms/30ms	20ms/30ms	30ms/40ms	80ms/100ms
READBACK RESOLUTION						
Voltage	2mV	5mV	10mV	10mV	20mV	40mV
Current	4mA	2mA	1mA	0.8mA	0.4mA	0.2mA
READBACK ACCURACY		If the unit is recalibrated at a temperature other 25℃,these specifications apply over a temperature band of ±5℃around calibration temperature.				
Voltage	0.1% +2LSB	0.1% +2LSB	0.1% +2LSB	0.1% +2LSB	0.1% +2LSB	0.1% +2LSB
Current	0.2% +5LSB	0.2% +5LSB	0.2% +5LSB	0.2% +5LSB	0.2% +5LSB	0.2% +5LSB
READBACK TEMPERATURE COEFFICIENT		The readback temperature coefficient is defined as the variation in reading per degree Celsius after a 30 minute warm-up.				
Voltage	100ppm+2mV	100ppm+4mV	100ppm+8mV	100ppm+10mV	100ppm+20mV	100ppm+40mV
Current	200ppm+6mA	200ppm+4mA	200ppm+2mA	200ppm+3mA	200ppm+1mA	200ppm+0.5mA
OUTPUT ISOLATION		Neither output terminal may be more than 240Vdc from chassis ground.				
	240Vdc	240Vdc	240Vdc	240Vdc	240Vdc	500Vdc
TEMPERATURE RATINGS /HUMIDITY RANGE		Operating	0℃to 40℃/ 30 to 80% RH			
		Storage	-20℃to 70℃/ 20 to 80% RH			
GPIB INTERFACE CAPABILITY		SH1,AH1,T6,TE0,L4,LE0,RL1,SR0,PP0,DC1,DT0,C0,E1				
WEIGHT	18 lbs	18 lbs	18 lbs	18 lbs	18 lbs	18 lbs
DIMENSIONS	8.4" x5.2" x15.7" for all models					

PPS SERIES SPECIFICATIONs

MODEL	PPS30-6	PPS35-5	PPS8-20	PPS18-10	PPS60-3/5	PPS128-1.5/2	PPS250-0.8/1.0
AC INPUT		One internal switch permits operation of 115 or 230(240)Vac line voltage.					
Input Current							
115VAC	3A	3A	3.2A	3.1A	3A/5A	3A	3A
230VAC	1.5A	1.5A	1.6A	1.5A	1.5A/2.5A	1.5A	1.5A
Fuse Rating		AC input is protected by a rear panel mounted fuse.					
115VAC	5A	5A	5A	5A	5A/8A	5A	5A
230VAC	2.5A	2.5A	2.5A	2.5A	2.5A/4A	2.5A	2.5A
Amplitude	115/120 Vac or 230/240 Vac 10%				115/120 Vac or 230/240 Vac 8%	115/120 Vac or 230/240 Vac 10%	
Frequency	50 to 60 Hz						
Maximum VA	343VA(350VA)	343VA	350VA	350VA	343VA/572VA	340VA/500VA	340VA/500VA
Maximum Power	268W(273W)	268W	273W	273W	268W/457W	270W/400W	270W/400W
Peak Inrush current	60A	60A	60A	60A	60A/80A	60A	60A
DC OUTPUT MAXIMUM RATINGS							
Voltage	30V(25V)	35V	8V	20V	60V/60V	128V	250V
Current	6A(8A)	5A	20A	10A	3A/5A	1.5A/2A	0.8A/1A
DC OUTPUT PROGRAMMING RANGE							
Voltage	0-30V(0-25V)	0-35V	0-8V	0-20V	0-60V/0-60V	0-128V	0-250V
Current	0-6A(0-8A)	0-5A	0-20A	0-10A	0-3A/0-5A	0-1.5A/2A	0-0.8A/1A
PROGRAMMING RESOLUTION (LSB) Voltage and current programming are monotonic over full temperature range.							
Voltage	10mV	10mV	2mV	5mV	20mV	40mV	80mV
Current	2mA	2mA	7mA	3mA	1mA/2mA	0.5mA	0.25mA
OVP	200mV	200mV	50mV	100mV	400mV	800mV	1.6V
PROGRAMMING ACCURACY		If the unit is recalibrated at a temperature other 25℃,these specifications apply over a temperature band of ±5℃around calibration temperature.					
Voltage	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB	0.05%+2LSB
Current	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB	0.15%+5LSB
OVP	2.4%+1.3V	2.4%+1.3V	2.4%+0.3V	2.4%+0.6V	2.4%+2.5V	2.4%+5V	2.4%+10V
EXTERNAL ANALOG PROGRAMMING GAIN							
Voltage	3V/V(2.5V/V)	3.5V/V	0.8V/V	2V/V	6V/V	12V/V	25V/V
Current	0.6A/V(0.8A/V)	0-5A/V	2A/V	1A/V	0.3/0.5A/V	0.15/0.2A/V	0.08/0.1A/V
EXTERNAL ANALOG PROGRAMMING ACCURACY							
Voltage	0.1%+20mV	0.1%+20mV	0.1%+4mV	0.1%+10mV	0.1%+40mV	0.1%+80mV	0.1%+160mV
Current	0.1%+12mA	0.1%+12mA	0.1%+40mA	0.1%+20mA	0.1%+6/12mA	0.1%+3mA	0.1%+1.5mA
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%+1mV	0.001%+1mV
Current	1mA	1mA	1mA	1mA	1mA	1mA	1mA
Remote sense operation is possible with up to 0.5V drop for positive and negative output load leads.							

PPS SERIES SPECIFICATIONs

MODEL	PPS30-6	PPS35-5	PPS8-20	PPS18-10	PPS60-3/5	PPS128-1.5/2	PPS250-0.8/1.0
SOURCE EFFECT			Maximum output change for a line voltage change within rating.				
Voltage	1mV	1mV	1mV	1mV	1mV	1mV	1mV
Current	1mA	1mA	1mA	1mA	1mA	0.1mA	0.1mA
PARD(PERIODIC AND RANDOM DEVIATION AND NOISE) RMS/PK-PK(20Hz -20MHz)with output ungrounded.							
Voltage	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	2mVrms/10mVp-p	2.5mVrms/40mVp-p	3mVrms/40mVp-p
Current	1mArms	1mArms	1mArms	1mArms	1mArms	0.5mArms	0.2mArms
TEMPERATURE COEFFICIENT			The temperature coefficient is defined as the change in output per degree Celsius; after a 30 minute warm-up period.				
Voltage	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃	100ppm/℃
Current	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃	200ppm/℃
DRIFT (STABILITY)			The drift is defined as the change in output over an eight-hour interval under constant line, load, and ambient temperature after a 30 minute warm-up period.				
Voltage	0.01%+3mV	0.01%+3mV	0.01%+1mV	0.01%+1mV	0.01%+6mV	0.01%+10mV	0.01%+20mV
Current	0.1%+6mA/8mA	0.1%+6mA	0.1%+20mA	0.1%+10mA	0.1%+2mA	0.1%+1mA	0.1%+0.5mA
LOAD TRANSIENT RESPONSE			The time required for the output voltage to recover within a band of 0.1% of rated voltage around the nominal voltage, within a 50% variation in load current.				
Recovery Time	50us	50us	50us	50us	50us	50us	50us
PROGRAMMING UP/DOWN SPEED			The total programming UP/DOWN time is the sum of output voltage response time and the programming command processing time. LSB is the maximum time for the output voltage to vary within 0.025% of a final value. UP and DOWN times are the maximum times for the 10% to 90% or to 10% of its total excursion value.				
Tup/Tdn	3ms/5ms	3ms/5ms	3ms/5ms	3ms/5ms	15ms/20ms	20ms/30ms	50ms/70ms
LSB	20ms/30ms	20ms/30ms	20ms/30ms	20ms/30ms	30ms/40ms	80ms/100ms	250ms/400ms
READBACK RESOLUTION							
Voltage	10mV	10mV	2mV	5mV	20mV	40mV	80mV
Current	2mA	2mA	8mA	4mA	1mA/2mA	0.5mA	0.25mA
READBACK ACCURACY			If the unit is recalibrated at a temperature other 25℃,these specifications apply over a temperature band of ±5℃around calibration temperature.				
Voltage	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB	0.1%+2LSB
Current	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB	0.2%+5LSB
READBACK TEMPERATURE COEFFICIENT			The readback temperature coefficient is defined as the variation in reading per degree Celsius after a 30 minute warm-up.				
Voltage	100ppm+8mV	100ppm+10mV	100ppm+2mV	100ppm+4mV	100ppm+20mV	100ppm+40mV	100ppm+80mV
Current	200ppm+6mA	200ppm+6mA	200ppm+20mA	200ppm+12mA	200ppm+3mA	200ppm+1mA	200ppm+0.5mA
OUTPUT ISOLATION			Neither output terminal may be more than 240Vdc from chassis ground.				
	240Vdc	240Vdc	240Vdc	240Vdc	240Vdc	500Vdc	500Vdc
TEMPERATURE RATINGS /HUMIDITY RANGE		Operating	0℃to 40℃/ 30 to 80% RH				
		Storage	-20℃to 70℃/ 20 to 80% RH				
GPIB INTERFACE CAPABILITY			SH1,AH1,T6,TE0,L4,LE0,RL1,SR0,PP0,DC1,DT0,C0,E1				
WEIGHT	19 lbs	19 lbs	19 lbs	19 lbs	19 lbs/20 lbs	19 lbs	19 lbs
DIMENSIONS	8.4" x5.2" x15.7" for all models						

Specifications are subject to change without notice