

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 s	switch permits ope	ration of 115 or 23	0(240) Vac line vo	ltage.				
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 p	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 MAXI	DC OUTPUT MAXIMUM RATINGS								
Voltage	8V	18V	30V	35V	60V	128V			
Current	10A	4A	2.5A	2A	1A	0.5A			
DC OUTPUT PROGI	RAMMING RAN	GE							
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 RI	ESOLUTION (LS]	 B) Voltage and ci 	urrent programming	g are monotonic ov	er full temperature	e 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 ANALO	OG PROGRAMMI	ING 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 ANALO	OG PROGRAMMI	ING 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 maximum voltage or curr	defined as the ma	ximum change in	output due to a lo	ad change up to the			
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.									



MODEL	PPS8-10	PPS18-4	PPS30-2.5	PPS35-2	PPS60-1	PPS128-0.5
SOURCE EFFECT		Maximum output chang	e for a line voltage cl	hange within rating.		
Voltage	1mV	1mV	1mV	1mV	1mV	1mV
Current	1mA	1mA	1mA	1mA	1mA	0.1mA
PARD (PERIODIC AND	RANDOM DEV	IATION AND NOISE)				
KMS/PK-PK (20HZ - 20H	(1mVrms/10mVr. r	ungrounded.	1mVmms/10mVm m	1mVmms/10mVm m	1mVmms/10mVm m	2.5mWrms/40mWr a
Current	1m Arma	1m v mis/10m v p-p	1m v rms/ rom v p-p	1m Arms	1m v rms/ rom v p-p	2.5m v ms/40m v p-p
		Thianis (C				0.511A1115
TEMPERATURE COEF	FICIENT	minute warm-up period		change in output per	degree Ceisius; after a	1 30
Voltage	100ppm/	100ppm/	100ppm/	100ppm/	100ppm/	100ppm/
Current	200ppm/	200ppm/	200ppm/	200ppm/	200ppm/	200ppm/
DRIFT (STABILITY)		The drift is defined as the	ne change in output o	ver an eight hour inter	rnal under constant lir	ne, load,
· · · · ·		and ambient temperatur	e after a 30 minute w	arm-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 RE	SPONSE	The time required for th	e output voltage to re	cover within a band o	of 0.1% of rated volta	ge around the
		nominal voltage, within	a 50% variation in lo	ad current.		-
Recovery Time	50us	50us	50us	50us	50us	50us
PROGRAMMING UP/D	OWN SPEED	The total programming command processing the value. UP and DOWN value.	UP/DOWN time is me. LSB is the maximum times are the maxim	the sum of output vo num time for the outp num times for the 10 ^o	bltage response time but voltage to vary wi % to 90% or to 10%	and the programming thin 0.025% of a final of its total excursion
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 RESOLUT	ION					
Voltage	2mV	5mV	10mV	10mV	20mV	40mV
Current	4mA	2mA	1mA	0.8mA	0.4mA	0.2mA
READBACK ACCURA	CY	If the unit is recalibrated	d at a temperature oth	er 25 ,these specific	ations apply over a te	mperature
		band of ±5 around cal	ibration 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 TEMPERA	ATURE COEFFIC	IENT The readback temperatu minute warm-up.	re coefficient is defir	ned as the variation in	reading per degree C	elsius after a 30
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 24	OVdc from chassis gr	ound.	
	240Vdc	240Vdc	240Vdc	240Vdc	240Vdc	500Vdc
TEMPERATURE RATIN /HUMIDITY RANGE	NGS	Operating	0 to 40 / 30 to 80	0% RH		
		Storage	-20 to 70 / 20 to	80% RH		
GPIB INTERFACE CAP	ABILITY	SH1,AH1,T6,TE0,L4,L	LEU,RL1,SR0,PP0,DC	21,DT0,C0,E1	4 < 11	4 - 11
WEIGHT	18 lbs	16 lbs	16 lbs	16 lbs	16 lbs	16 lbs
DIMENSIONS	8.4" x5.2" x15.7"	tor all models				



MODEL	PPS250-0.2	PPS250-0.35	PPS250-0.035
AC INPUT			
One internal switch permits	operation of 115 or 230(240) Vac line vol	ltage.	
Input Current			
115VAC	1.2A	0.5A	0.5A
230VAC	0.6A	0.25A	0.25A
Fuse Rating : AC input is pr	rotected 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	c 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 PROGRAMM	/ING RANGE		
Voltage	0-250V	0-35V	0-35V
Current	0-0.2A	0-0.35A	0-35mA
PROGRAMMING RESOLU	UTION (LSB)		
Voltage and current program	nming are monotonic over full temperature	e range.	
Voltage	80mV	10mV	10mV
Current	0.1mA	0.1mA	10uA
OVP	1.6V	200mV	200mV
PROGRAMMING ACCUR	ACY		
If the unit is recalibrated at a ten	nperature other than 25 , these specifications a	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 PR	OGRAMMING GAIN		
Voltage	25V/V	3.5V/V	N A
Current	0.02A/V	0.035A/V	N.A.
EXTERNAL ANALOG PR	OGRAMMING ACCURACY		
Voltage	0.1%+160mV	0.1%+20mV	N A
Current	0.1%+0.3mA	0.1%+0.4mA	N.A.
LOAD EFFECT			
Load effect is defined as the	maximum change in output due to a load	change up to the maximum v	oltage or current rating.
Voltage	0.001% + 1mV	0.001%+1mV	
Current	0.1mA	0.1mA	
Remote sense operation is po	ossible with up to 0.5V drop for positive a	and negative output load leads	



MODEL	PPS250-0.2	PPS250-0.35	PPS250-0.035
SOURCE EFFECT			
Maximum output change for a line	e voltage change within rating.		
Voltage	1mV	1mV	1mV
Current	0.1mA	0.1mA	0.1mA
PARD (PERIODIC AND RAND	OM DEVIATION AND NOISE)		
RMS/PK-PK (20Hz-20MHz) wit	h 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 defi	ined as the change in output per degre	e Celsius; after a 30 minute warm-up	period.
Voltage	100ppm/	100ppm/	100ppm/
Current	200ppm/	200ppm/	200ppm/
DRIFT (STABILITY) :	The drift is defined as the char	nge in output over an eight hour interna	al under constant line, load, and ambient
	temperature after a 30 minute way	rm- 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 out	tput voltage to recover within a band	1 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 SI	PEED : The total programming UP/DOW	VN time is the sum of output voltage resp	onse time and the programming command
	processing time. LSB is the maxi	imum time for the output voltage to vary v	within 0.025% of a final value. UP and the
	DOWN times are the maximum to	imes for 10%	
Tup / Tdn	120ms / 130ms	30ms / 40ms	NT A
LSB	250ms / 400ms	100ms / 120ms	N.A.
READBACK ACCURACY :	If the unit is recalibrated at a ter	mperature other 25 , these specification	ons apply over a temperature band of
	±5 around calibration temperatu	ıre.	
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 C	COEFFICIENT:		
	The readback temperature co	efficient 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 chas	sis ground.
	500Vdc	240Vdc	240Vdc
TEMPERATURE RATINGS		210746	210140
/HUMIDITY RANGE	Operating	0 to 40 / 30 to 80% RH	
	Storage	-20 to 70 / 20 to 80% RH	
CDIR INTERFACE CAPABILIT	$\nabla \cdot$ SHI AHI T6 TE0 I 4 I E0 RI	1 SP0 PP0 DC1 DT0 C0 F1	
WFIGHT	16 lbs	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	1010s		
DIMENSIONS	8.4"×5.2"×15.7" for all models		



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 o	over full temperature range.				
Voltage	10mV	20mV				
Current	2mA	1mA				
OVP	200mV	400mV				
PROGRAMMING ACCURACY If the	e unit is recalibrated at a temperature other than 25	,these specifications apply				
over a temperature ba	nd 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	s defined as the maximum change in output due to a	a load change up to the				
maximum voltage or o	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.						



MODEL	PPS35-3R	PPS60-1.5R			
SOURCE EFFECT	Maximum output change for a line voltage chan	ge within rating.			
Voltage	1mV	1mV			
Current	1mA	1mA			
PARD (PERIODIC AND RANDOM DEV	IATION 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 cha	inge 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 arour				
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 s programming command processing time. LSB is within 0.025% of a final value. UP and DOWN or to 10% of its total excursion value.	um of output voltage response time and the the maximum time for the output voltage to vary times are the maximum times for the 10% to 90%			
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 2	these specifications apply over a			
	temperature band of ±5 around calibration tem	perature.			
Voltage	0.1% +2LSB	0.1% +2LSB			
Current	0.2% +5LSB	0.2% +5LSB			
READBACK TEMPERATURE COEFFIC	CIENT The readback temperature coefficient is defined after a 30 minute warm-up.	as the variation in reading per degree Celsius			
Voltage	100ppm+10mV	100ppm+20mV			
Current	200ppm+4mA	200ppm+2mA			
OUTPUT ISOLATION	Neither output terminal may be more than 240V	dc from chassis ground.			
	240Vdc	240Vdc			
TEMPERATURE RATINGS					
/HUMIDITY RANGE	Operating $0 \text{ to } 40 / 30 \text{ to } 80\%$	RH			
	Storage -20 to 70 / 20 to 80	0% RH			
GPIB INTERFACE CAPABILITY	SH1,AH1,T6,TE0,L4,LE0,RL1,SR0,PP0,DC1,E	DT0,C0,E1			
WEIGHT	18 lbs	18 lbs			
DIMENSIONS 8.4" x5.2" x15.7" for	all models				



MODEL	PPS8-6D	PPS18-4D	PPS35-2D	PPS30-3D	PPS60-1D	PPS128-0.5D		
AC INPUT		One internal switch	n permits operation of	of 115 or 230(240) V	/ac 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 2	30/240 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 PROGRAM	MMING 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 RESC	OLUTION (LSB)	Voltage and curren	t programming are i	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 ACCU	URACY	If the unit is reca	alibrated at a temp	erature other than	25 , the specifica	tions apply over a		
		temperature band of	of ±5 around calibr	ation 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 defin	ned as the maximun	n change in output d	ue to a load change	up to the maximum		
		voltage or current i	ating.					
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.								



MODEL	PPS8-6D	PPS18-4D	PPS35-2D	PPS30-3D	PPS60-1D	PPS128-0.5D		
SOURCE EFFECT		Maximum output o	change for a line vol	tage 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 -20N	(Hz)with output ung	rounded.	,					
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 COEF	FICIENT	The temperature co	The temperature coefficient is defined as the change in output per degree Celsius; after a 30minute					
Voltage	100ppm/	100ppm/	100ppm/	100ppm/	100ppm/	100ppm/		
Current	200ppm/	200ppm/	200ppm/	200ppm/	200ppm/	200ppm/		
DRIFT (STABILITY)	FL	The drift is defined	1 as the change in o	itput over an eight h	our internal under o	onstant line load		
		and ambient tempe	erature after a 30 mi	nute warm-up perior	1	onstant mie, ioad,		
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	The time required	for the output voltage	ge to recover within	a band of 0.1% of r	ated voltage around		
	51 01 02	the nominal voltage, within a 50% variation in load current						
Recovery Time	50us	50us	50us	50us	50us	50us		
PROGRAMMING UP/D	OWN SPEED	rogramming UP/DOWN time is the sum of outprogramming command processing time. LSB is the maximum within .025% of a final value. UP and DOWN times are the n or to 10% of its total excursion value.			output voltage res mum time for the ou the maximum times	ponse time and the atput voltage to vary for the 10% to 90%		
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 RESOLUT	TION							
Voltage	2mV	5mV	10mV	10mV	20mV	40mV		
Current	4mA	2mA	1mA	0.8mA	0.4mA	0.2mA		
READBACK ACCURA	CY	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 TEMPERA	ATURE COEFFICII	ENT 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 terr	ninal may be more t	han 240Vdc from cl	nassis ground.			
	240Vdc	240Vdc	240Vdc	240Vdc	240Vdc	500Vdc		
TEMPERATURE RATI	NGS							
HUMIDITY RANGE		Operating	0 to 40 / 30 to 8	80% RH				
		Storage	-20 to 70 / 20 to	0 80% RH				
GPIB INTERFACE CAP	PABILITY	SH1,AH1,T6,TE0	,L4,LE0,RL1,SR0,P	P0,DC1,DT0,C0,E1				
WEIGHT	18 lbs	18 lbs	18 lbs	18 lbs	18 lbs	18 lbs		
DIMENSIONS	8.4" x5.2" x15.7" f	for all models						



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 swit	ch permits operation	on of 115 or 230(2	40)Vac line voltage	e.	
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 prote	cted by a rear pane	el 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	115/120 Vac or 2	230/240 Vac 10%
					230/240 Vac 8%		
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 PRO	GRAMMING RAI	NGE					
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 (L	SB) Voltage and c	urrent programmir	ng are monotonic o	over full temperatur	e 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 recal	librated at a temper	rature other 25, t	hese specifications	apply over a temp	erature band of
		±5 around calib	ration 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 ANAI	LOG PROGRAM	MING 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 ANAI	LOG PROGRAM	MING ACCURAC	Y				
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 de current rating.	fined as the maxin	num change in ou	tput due to a load	change up to the	maximum voltage or
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 opera	tion is possible wi	th up to 0.5V drop	for positive and ne	egative output load	l leads.		



MODEL	PPS30-6	PPS35-5	PPS8-20	PPS18-10	PPS60-3/5	PPS128-1.5/2	PPS250-0.8/1.0	
SOURCE EFFE	ECT		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(PERIOI	DIC AND RANDO	M DEVIATION A	ND NOISE)					
RMS/PK-PK(2	0Hz -20MHz)with	output ungrounded	l.					
Voltage	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	1mVrms/10mVp-p	2mVrms/10mVp-p	2.5mVrms/40mVp-	3mVrms/40mVp-p	
Current	1mArms	1mArms	1mArms	1mArms	1mArms	р	0.2mArms	
						0.5mArms		
TEMPERATU	RE COEFFICIENT	Г	The temperature	coefficient is defin	ed as the change in	n 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 (STAB	(LITY)		The drift is define	ed as the change in	output over an eig	ht-hour interval un	der constant line,	
			load, and ambien	t 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	l for the output vol	tage to recover wit	thin 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			programming OP/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/Tdp	3ms/5ms	3ms/5ms	3ms/5ms	3ms/5ms	15ms/20ms	20ms/30ms	50ms/70ms	
	20ms/30ms	20ms/30ms	20ms/30ms	20ms/30ms	30ms/40ms	80ms/100ms	250ms/400ms	
LSB								
READBACK R	LESOLUTION	10 17	0.14	5 14	20 14	40 37	00 N	
voltage	IUmv	10mv	2mv	5mv	20mV	40m V	80mV	
Current	2mA	2mA	8mA	4mA	ImA/2mA	U.SMA	0.25mA	
READBACK A	ACCURACY		If the unit is recal	of +5 around cal	ature other 25 ,t	hese specifications	apply over a	
Voltago	0.104 101 SP	0.104 J 21 SP				0.104 JOISP	0.10/ 1.21 SP	
Voltage	0.1% +2L3B	0.1% +2L3B	0.1% +2L3B	0.1% +2L3B	0.1% +2L3B	0.1% +5LSB	0.1% +2L3B	
Current READBACK T	<u>0.2% +5LSB</u> EMPERATURE (OEFFICIENT	0.270 13130	0.270 13130	0.270 +5131	0.270 13130	0.270 15135	
			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 ISOL	ATION		Neither output ter	rminal may be mor	e than 240Vdc fro	m chassis ground.		
	240Vdc	240Vdc	240Vdc	240Vdc	240Vdc	500Vdc	500Vdc	
TEMPERATU	RE RATINGS							
/HUMIDITY R	ANGE	Operating	0 to	40 / 30 to 80% I	RH			
		Storage	-20	to 70 / 20 to 80%	6 RH			
GPIB INTERF	ACE CAPABILIT	Y	SH1,AH1,T6,TE	0,L4,LE0,RL1,SR0),PP0,DC1,DT0,C	0,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