Overview

- High Power AC Power Source
 Programmable AC power for frequency conversion and product test applications
- Expandable Power Levels
 Available output power of 30, 45, 75, and 90 kVA per unit and multi-unit configurations for power requirements of 150 and 180 kVA
- Remote Control
 Standard IEEE-488 (GPIB), RS232C & USB along with optional LAN Interfaces are available for automated test applications

Introduction

The BPS Series consists of multiple high-power AC power systems that provide controlled AC output for ATE and product test applications.

This high-power AC test system covers a wide spectrum of AC power applications at an affordable cost. Using state-of-the-art PWM switching techniques, the BPS series combines compactness, robustness, and functionality in a compact floor-standing chassis, no larger than a typical office copying machine. This higher power density has been accomplished without the need to resort to elaborate cooling schemes or additional installation wiring. Simply roll the BPS unit to its designated location (using included casters), plug it in, and the BPS series is ready to work for you.

Simple Operation

The BPS Series can be operated completely from its menu driven front panel controller. A backlit LCD display shows menus, setup data, and readback measurements. IEEE-488, RS232C, USB, and optional LAN remote control interfaces and instrument drivers for popular ATE programming environments are available. This allows the BPS Series to be easily integrated into an automated test system.



Configurations

The BPS series can deliver 30, 45, 75, 150 or 180 kVA of AC power. The BPS30 and BPS45 models come as dedicated single or three phase output, while the BPS75, BPS90, BPS150, and BPS180 are dedicated three phase outputs.

Product Evaluation and Test

Increasingly, manufacturers of high-power equipment and appliances are required to fully evaluate and test their products over a wide range of input line conditions.

Output voltage options, such as the -333 option, allow testing of high voltage 480VAC L-L products at 120% of nominal as required by IEEE 1547 (Table 1) "Interconnection system response to abnormal voltages".

The built-in output transient generation and readback measurement capability of the BPS Series offers the convenience of a powerful, and easy to use, integrated test system.

150-400 V

0-400A/ Phase

*	208	230	380
	400	480	600





BPS Series

Avionics

With an output frequency range to 819 Hz., the BPS Series is well suited for aerospace applications. Precise frequency control and accurate load regulation are key requirements in these applications. The available IEEE-488 remote control interface and SCPI command language provide for easy integration into existing ATE systems. The BPS Series eliminates the need for several additional pieces of test equipment, saving cost and space. Instrument drivers for popular programming environments such as National Instruments LabView™ are available to speed up system integration.

Choice of Voltage Ranges

The BPS Series includes 0 - 150V & 0 - 300V or optionally, 0 - 166V & 0 - 333V line to neutral. These models provide a maximum 3 phase output capability of 260 Vac & 520 Vac or 287 & 576V line to line respectively.

For applications requiring more than 333 V L-N (or 576 V L-L), the optional -HV output transformer provides an additional 0 - 400 V L-N and 0 - 693 V L-L output range for use in AC mode only. For custom applications the XV option is available and is user defined and offers up to 600VL-N (1,038VL-L)

High Crest Factor

With support for high crest factor loads, the BPS Series AC source can drive difficult nonlinear loads with ease. Since many modern products use switching power supplies, they tend to pull high repetitive peak currents. The BPS30 with a crest factor rating of 4.5 for example, can deliver up to 300 Amps of repetitive peak current (150 V AC range) per phase to handle three phase loads. Refer to the specifications for peak repetitive currents for each model.

Remote Control

Standard RS232C, USB, and IEEE-488(GPIB), along with optional LAN remote control interfaces allow programming of all instrument functions from an external computer. The popular SCPI command protocol is used for programming.

Application Software

- Windows® application software (*) is included. This software provides easy access to the power source's capabilities without the need to develop any custom code. The following functions are available through this GUI program:
 - * Requires PC running Windows™ 7, 8.x, or 10
- Steady state output control (all parameters)
- Create, run, save, reload, and print transient programs
- Measure and log standard measurements
- Display IEEE-488, RS232C, USB, and LAN bus traffic to and from the AC Source to help you develop your own test programs.



Virtual Panels GUI Software

The California Instruments MX and RS Series are high performance, feature rich Research and Development solutions. That level of advanced performance is not always required in production and lab environments. Since the BPS shares a common code structure and performance characteristics with the MX and RS series, the BPS is ideally suited to easily transition into cost effective production solutions.

BPS Series 30–180 kVA

BPS Series - AC Transient Generation

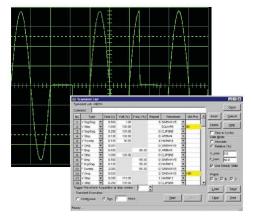
The BPS Series controller has a powerful AC transient generation system that allows complex sequences of voltage, frequency and waveshapes to be generated. This further enhances the BPS's capability to simulate AC line conditions and disturbances. Transient generation is controlled independently yet time synchronized on all three phases. Accurate phase angle control and synchronized transient list execution provide unparalleled accuracy in positioning AC output events.

Transient programming is easily accomplished from the front panel where clearly laid out menu's guide the user through the transient definition process.

The front panel provides a convenient listing of the programmed transient sequence and allows for transient execution Start, Stop, Abort and Resume operations. User defined transient sequences can be saved to non-volatile memory for instant recall and execution later. The included Graphical User Interface program supports transient definitions using a spreadsheet-like data entry grid. A library of frequently used transient programs can be created on disk using this GUI program



Transient List Data Entry from the front panel.



Transient List Data Entry in GUI program.

The BPS Series is much more than a programmable AC power source. It also incorporates an advanced digital signal processor-based data acquisition system that continuously monitors all AC source and load parameters. This data acquisition system forms the basis for all measurement and analysis functions. These functions are accessible from the front panel and the remote-control interface for the BPS Series

Common AC measurement parameters are automatically provided by the data acquisition system. These values are displayed in numeric form on the front panel LCD display. The following measurements are available: Frequency, Vrms, Irms, Ipk, Crest Factor, Real Power (Watts), Apparent Power (VA) and Power Factor.

BPS Series

30-180 kVA

Model

Refer to table shown for model numbers and configurations

Supplied with

User/Programming Manual and Software on CD ROM. RS232C serial cable.

Input Voltage Settings

Specify input voltage (L-L) setting for each BPS system at time of order:

208	Configured for 208 V $\pm 10\%$ L-L, 4 wire input.
230	Configured for 230 V $\pm 10\%$ L-L, 4 wire input.
380	Configured for 380V \pm 10% L-L, 4 Wire Input
400	Configured for 400 V $\pm 10~\%$ L-L, 4 wire input.
480	Configured for 480 V $\pm 10~\%$ L-L, 4 wire input
600	Configured for 600 V \pm 10 % L-L, 4 wire input

Standard Model Options

-333	Configured for 166VAC and 333V AC L-N output ranges
-ES	Emergency Shut Off with Key Release
-LF	Limits maximum frequency to 500 Hz
-FC	Modifies output frequency control to ± 0.25%
-LAN	Ethernet Interface.
-HV	Adds 400 V L-N AC-only output range.
-HVC	Adds 0-400VAC L-N AC only output range with constant power mode.
-XV	Adds other AC-only output range. Consult factory for details.
-XVC	Adds other AC only output range with constant power mode. Consult Factory for details

Packaging and Shipment

All BPS systems are packaged in reusable protective wooden crates for shipment.

ACInput										
Input Voltage		Must be specified at time of order. All inputs are L-L, 3ø, 3 wire + Cnd.								
Input voltage		208 ± 10% VAC, 230 ± 10% VAC, 380V ± 10% VAC, 400 ± 10% VAC, 480 ± 10% VAC, 480 ± 10% VAC 600V ± 10% VAC								
	200	BPS30	BPS45	BPS75	BPS90	BPS150 *	BPS180 *			
	208	116 ARMS @ 187VLL	175 ARMS # 187 VLL	285 ARMS @187 VLL	350 ARMS @187 VLL	570 ARMS @187 VLL	700 ARMS @ 187 VLL			
Input Line Current (per	230	105 ARMS @207 VLL	157 ARMS @207 VLL	256 ARMS @207 VLL	314 ARMS @207 VLL	512 ARMS @207 VLL	624 ARMS @207 VLL			
phase) Steady State at	380	62 ARMS @ 342 VLL	95 ARMS @342 VLL	154 ARMS @342 VLL	177 ARMS @342 VLL	292 ARMS @342 VLL	354 ARMS @342 VLL			
full power load and Low line input	400	60 ARMS @ 360 VLL	90 ARMS @360 VLL	147 ARMS @360 VLL	180 ARMS @360 VLL	294 ARMS @360 VLL	360 ARMS @360 VLL			
ine iiput	480	50 ARMS @432 VLL	75 ARMS @432 VLL	122 ARMS @432 VLL	150 ARMS @432 VLL	244 ARMS @432 VLL	300 ARMS @432 VLL			
	600	40 ARMS @ 540 VLL	60 ARMS @ 540 VLL	99 ARMS @ 540 VLL	112 ARMS @540 VLL	199 ARMS @540 VLL	224 ARMS @540 VLL			
	NOTE: BPS150 and BPS180 are comprised of two chassis, (BPS150 is 2 x BPS75, BPS180 is 2 x BPS90) each require a separate ACLine service									
Distortion		<8% at full power, <20%	below 35% of power							
Line Frequency		47 - 63 Hz.								
Efficiency		85 %typical								
Power Factor		0.95 typical								
ACService										
Inputs/Outputs	BPS30/45:	BPS30/45: Front and side access, cables routed through rear panel, exit in back. BPS75/90/150/180 Rear Access								
Regulatory	IEC/EN61	N61010-1								
EMI	CISPR 11 /	EN 55011, Class A, , EN 613	326-1, CE EMC (400 VInput	models only 400 Option)						
Connectors	ACInput &	Cutput terminal block behind front cover. Rear Panel Connections: IEFE 488 (GPIB) connector Option, 9 pin Sub-DRS232C connector*, Remote voltage sense								
		lock , System Interface Conn	ector, DB-37, Ethernet com	nector Option. *RS232 DB	9 to DB9 cable supplied,					
Physical Dimensions / En										
	Height:	50.0" (1270 mm)								
BPS30/45 Dimensions	Width:	28.75" (731 mm) 34.5" (876 mm)								
BPS30/45 Weight	Depth: 1150 lbs.	522 Kg								
BPS30/45 Shipping	1130 108.	322 Ng								
Weight	1231 lbs	560 Kg,								
5	Height:	74.5" 1892.3 mm								
BPS75/90 Dimensions	Width:	30.3" 769.6 mm								
	Depth:	38.3" 972.8 mm								
BPS75/90 Weight		975 Kg approximately	1' 187 387 4'							
BPS75/90 Shipping		1123 Kg approximately included in the second	ading —riv or —Av option							
Weight		1258 Kg approximately includes	ıding –HV or –XV ontion							
Chassis		cabinets: Casters and forklif								
Vibration and Shock		to meet NSTA project 1 A tran	1 0	shipped in wooden crate w	ith forklift slots					
Air Intake/Exhaust		cooling, front air intake, rear	•							
Operating Humidity		0 to 95 % Relative Ambient Humidity, non-condensing								
Temperature		0 to 40° C(30° max in CP mo	<u> </u>							
10.1.poruturo	Operating views Color maxim a money, storage, -20 to 100 C									

			Voltage Ranges					
Model	ACOutput Power	Phase Outputs*	ACVLow/Vhigh	-HVOpt	333 Opt ACVLow/Vhigh			
BPS30	30kVA	1 &3	150/300	400 VAC	166 / 333			
BPS45	45 kVA	1 & 3	150/300	400 VAC	166 / 333			
BPS75	75 kVA	3	150/300	400 VAC	166 / 333			
BPS90	90 kVA	3	150/300	400 VAC	166 / 333			
BPS150	150 kVA	3	150/300	400 VAC	166 / 333			
BPS180	180kVA	3	150/300	400 VAC	166 / 333			

-MB Option			
Model	ACOutput Power	Phase Outputs	Controller
BPS150-3-MB	150 kVA	3	Dual BPS45
BPS180-3-MB	180 kVA	3	Dual BPS90

BPS Series Specifications

Operating Modes											
All Models: Models AConly											
ACMode Output											
Frequency	Range: 16.00-8	Range: 16.00-819.0 Hz., -LF Option: 16.00-500.0 Hz.). Resolution: 0.01 Hz.: 16.00 - 81.91 Hz., 0.1 Hz.: 82.0 Hz 819.1 Hz.									
Phase Outputs	BPS30/45: 1 or	BPS30/45: 1 or 3 phase selected at time of order, BPS75/90/150/180 3 phase; Neutral: Floating; Coupling: AC									
Total Power	BPS30: 30 kVA,	BPS30: 30 kVA, BPS45: 45 kVA, BPS75: 75kVA BPS90: 90 kVA, BPS150: 150 kVA, BPS180: 180kVA									
Load Power Factor	0 to unity at ful	0 to unity at full output current									
ACMode Voltage											
Voltage Ranges	Range										
(Std Unit has 150 and 300VAC, 333 Option has 166 and 333VAC)	AC	0-150 / 0-1	0-150 / 0-166V								
External Sense	Voltage drop co	Voltage drop compensation (5% Full Scale)									
Harmonic Distortion (Linear)	Less than 0.5%	from 16 - 66 Hz	z.; Less than 1% from	66 - 500 Hz.; Less th	an 1.5%above 500 Hz.						
DCOffset	<20 mV										
Load Regulation	0.25%FS@DC	- 100 Hz., 0.5%	FS > 100 Hz.								
External Amplitude Modulation	Depth: 0 - 10 %	Frequency: DC	C- 2 KHz.								
Voltage slew rate ACMode Current	200 μs for 10%	to 90% of full-s	cale change into resis	tive load, 0.5V/ µSe	ec						
AC vode current	Model /	_	BPS30	BPS45	BPS75	BPS90	BPS150	BPS180			
Standy State ACGreent @ DS V	Low Range / I	High Range 150	3Ph / 1 Ph 66.6 A/ø / 200 A	3 Ph / 1 Ph 100 A/ø / 300 A	3 Ph 166 A/ø	3 Ph 200 A/ø	3 Ph 332 A/ø	3 Ph 400 A/ø			
Steady State AC Current @FS V (Std Unit has 150 and 300VAC	Standard	333	33.3 Aø/ 100 A	50 Aø/ 150 A	83 A/ø	100 A/ø	166 A/ø	200 Aø			
-333 Option has 166 and 333VAC)	-333 Option	166 333	60 A/ ø/180.1 A 30 A/ø/ 90.1 A	90.1 A/ø/ 270.3 45 A/ø/ 135 A	150 A/ø 75 A/ø	180.2 A/ø 90.1 A/ø	300 A/ø 150 A/ø	360.3 A/ø 180.2 A/ø			
	Note: Constant	power mode pro	ovides increased curre	ent at reduced volta	ge. See chart below						
Peak Repetitive AC Current	BPS30 up to 4.5	5 / BPS75 and B	BPS150 up to 3.6. / BP	S45, BPS90, and BF	S180 up to 3.0. (x rms o	current at full scale vo	ltage)				
Programming Accuracy	Voltage (rms): =	± 0.3 Vrms, Freq	quency: ± 0.01 % of pr	ogrammed value, G	urrent Limit: - 0 %to + 5	% of programmed va	lue + 1A, Phase: <0.5°	+0.2°/100Hz. with			
Programming Resolution		100 mV, Freque	ncy:0.01 Hz. from 16 -	81.91 Hz., 0.1 Hz. f	rom 82.0 - 819 Hz., Curr	ent Limit: 0.1A, 3 pha	se mode, 1.0A, 1 phase	e mode, Phase: 0.1°			
Current Limit		from 0 Ato max	x current for selected	range							
Constant Power ACMode - Available 1		125%									
	Current	125%									
	(RMS) 1	00%									
	†										
						Full					
		50%				Power					
		20%									
		10%		50%	80%	100%					
Chassis Dimensions						ge (RMS)					
				3	2.00	45.26 40.01 (1016)					
28.75" (730.25mm)	<u></u>			0		٥	0				
(mm 1111100 0)											
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. 999		· 15	95-	100 100 100 100 100 100 100 100 100 100				0			
Rear View		Front 4	9.53mm]		*			D .			
				From	281 [71]	Side View	Rear View	· · ·			

BPS30 and BPS45

BPS75, BPS90, BPS150 and BPS180

BPS Series Specifications

30-180 kVA

Storage Non-Volatile Mem. Storage 16 instrument setups. Weveforms Waveform Types Sine System Interface Inputs Remote shutdown, External Sync, Clock/ Lock Outputs Remote ostrobe / Trigger out, Clock/ Lock Remote Control IEEE-488 (CPIB) talker listener. Subset: AHI, CO, DCI, DTI, L3, PPO, RL2, SHI, SRI, T6, IEEE-488.2 SCPI Syntax RE322C Interface 9 pin Sub-D connector (Supplied with RS232C cable) LAN (-LAN Opt.) Ethernet Interface: 10BaseT, 100BaseT, RJ45 USB Version: USB 1.1; Speed: 460 Kb/s maximum	Measurement											
Measurements - Standard (ACMassurements)		Parameter	Frequency	**		_			Real Power			Phase
Measurements - Standard (AC Measurements Accuracy**(±)		Range		400 V	0-160 A	0-4	400 A	0.00-6.00	0-15 kW	0-15 kVA	0.00-1.00	0.0-360.0
Neasurement Neasurement		Accuracy*(±)								0.1% 60VA+	7 7	
The Fire Fire BPS75, BPS90, BPS150, BPS150 or BPS30/45 in single phase mode. PF accuracy applies for PF> 0.5 and VA>50 %of range		Resolution*		10 mV	10 mA	10) mA	0.01	10 W	10 VA	0.01	0.1°
Range			·									
Measurements - Harmonics Accuracy*(±) 0.03% + 0.03 Hz / 0.01 Hz 2° typ. 750 mV 0.3% + 750 mV 0.3% + 150 mA + 0.3% 1 kHz.		Parameter	Frequency Funda	mental Harmonics	Phase			Voltage			Current	
Accuracy*(±) 0.03%+0.03 Hz / 0.01 Hz 2° typ. kHz 0.5 A/ 0.3%+150 mA+0.3%/1 kHz		Range			0.0 - 360.0	0.0 - 360.0° Funda		damental Harmonics 2-50		Fundamental Harmonics 2-50		
Accuracy specifications are valid above 100 counts. Accuracy specifications are for three phase mode. Harmonics frequency range for BPS30/45 in single phase mode is 32Hz 48kHz. Protection Overload Constant Current or Constant Voltage mode Over Temperature Automatic shutdown Storage Non-Volatile Mem. Storage 16 instrument setups. Weveform Types Sine System Interface Inputs Remote shutdown, External Sync, Clock/Lock Outputs Remote shutdown, External Sync, Clock/Lock Remote Control IEEE-488 (CPIB) talker listener. Subset: AHI, CD, DCI, DTI, L3, PPO, RI2, SHI, SRI, T6, IEEE-488.2 SCPI Syntax RE323 CInterface 9 pin Sub-D-connector (Supplied with RS232C cable) LNY(LANOpt.) Bhernet Interface: 10BaseT, 100BaseT, 1045 USB Version: USB 1.1; Speed: 460 Kb/s maximum	Measurements - Harmonics	Accuracy(±)	0.03%+ 0.03 Hz. / 0.01 Hz.		2° typ. 750 m				0.5 A/ 0.3%+ 150 mA+0.3%/1 kHz.			
Harmonics frequency range for BPS30/45 in single phase mode is 32Hz 48kHz. Protection Over load Constant Current or Constant Voltage mode Over Temperature Automatic shutdown Storage Non-Volatile Mem. Storage 16 instrument setups. Weveforms Waveform Types Sine System Interface Inputs Remote shutdown, External Sync, Clock/Lock Outputs Remote shutdown, External Sync, Clock/Lock Remote Control IEEE-488 (CPIB) talker listener. Subset: AHI, CO, DCI, DTI, L3, PPO, RL2, SHI, SRI, T6, IEEE-488.2 SCPI Syntax RS232C Interface 9 pin Sub-Doonnector (Supplied with RS232C cable) IAN (JAN Opt.) Bhernet Interface: 10BaseT, 100BaseT, RJ45 USB Version: USB 1.1; Speed: 460 Kb/s maximum		Resolution			0.5°					100 mA/ 100 mA		
Over Temperature Automatic shutdown Storage Non-Volatile Mem. Storage 16 instrument setups. Wiveforms Wiveform Types Sine System Interface Inputs Remote shutdown, External Sync, Clock/ Lock Outputs Remote shutdown, External Sync, Clock/ Lock Remote Ontrol IEEE-488 (CPIB) talker listener. Subset: AHI, CD, DCI, DTI, L3, PPO, RI2, SHI, SRI, T6, IEEE-488.2 SCPI Syntax RS232CInterface 9 pin Sub-Donnector (Supplied with RS232C cable) LAN (-LAN Opt.) Bihernet Interface: 10BaseT, RI45 USB Version: USB 1.1; Speed: 460 Kb/s maximum							or three p	hase mode.				
Over Temperature Automatic shutdown Storage Non-Volatile Mem. Storage 16 instrument setups. Wiveforms Wiveform Types Sine System Interface Inputs Remote shutdown, External Sync, Clock/ Lock Outputs Remote shutdown, External Sync, Clock/ Lock Remote Control IEEE-488 (CPIB) talker listener. Subset: AHI, CD, DCI, DTI, 13, PPO, RI2, SHI, SRI, T6, IEEE-488.2 SCPI Syntax RS232C Interface 9 pin Sub-D connector (Supplied with RS232C cable) LAN (-LAN Opt.) Bhernet Interface: 10BaseT, 100BaseT, RI45 USB Version: USB 1.1; Speed: 460 kb/s maximum	Protection											
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Wiveform Types Sine System Interface Inputs Remote shutdown, External Sync, Clock/ Lock Outputs Function Strobe / Trigger out, Clock/ Lock Remote Control IEEE-488 Interface IEEE-488 (CPIB) talker listener. Subset: AHI, C0, DC1, DT1, I3, PP0, RI2, SHI, SRI, T6, IEEE-488.2 SCPI Syntax RS232CInterface 9 pin Sub-D connector (Supplied with RS232C cable) LAN(-LAN Opt.) Behernet Interface: 10BaseT, 100BaseT, RI45 USB Version: USB 1.1; Speed: 460 Kb/s maximum	Storage											
Waveform Types Sine System Interface Inputs Remote shutdown, External Sync, Clock/ Lock Outputs Function Strobe / Trigger out, Clock/ Lock Remote Control IEEE 488 (GPIB) talker listener. Subset: AHI, CI, DCI, DTI, L3, PPO, RL2, SHI, SRI, T6, IEEE 488.2 SCPI Syntax RS232C Interface 9 pin Sub-D connector (Supplied with RS232C cable) LAN (-LAN Opt.) Bihernet Interface: 10BaseT, 100BaseT, RJ45 USB Version: USB 1.1; Speed: 460 Kb/s maximum	Non-Volatile Mem. Storage	16 instrument setups	S.									
System Interface Inputs Remote shutdown, External Sync, Clock/Lock Outputs Function Strobe / Trigger out, Clock/Lock Remote Control IEEE 488 (CPIB) talker listener. Subset: AHI, C0, DC1, DT1, L3, PP0, RL2, SHI, SR1, T6, IEEE 488.2 SCPI Syntax RS232CInterface 9 pin Sub-D connector (Supplied with RS232C cable) LAN(-LAN Opt.) Bihernet Interface: 10BaseT, 100BaseT, R145 USB Version: USB 1.1; Speed: 460 Kb/s maximum	Waveforms											
Inputs Remote shutdown, External Sync, Clock/Lock Outputs Function Strobe / Trigger out, Clock/Lock Remote Control IEEE-488 (GPIB) talker listener. Subset: AHI, C0, DCI, DTI, L3, PP0, RL2, SHI, SRI, T6, IEEE-488.2 SCPI Syntax RS232CInterface 9 pin Sub-D connector (Supplied with RS232C cable) LAN(-LAN Opt.) Bihernet Interface: 10BaseT, 100BaseT, RI45 USB Version: USB 1.1; Speed: 460 Kb/s maximum	Waveform Types	Sine										
Outputs Function Strobe / Trigger out, Clock/ Lock Remote Control IEEE-488 (GPIB) talker listener. Subset: AHI, C0, DC1, DT1, L3, PP0, RL2, SHI, SR1, T6, IEEE-488.2 SCPI Syntax RS232CInterface 9 pin Sub-D connector (Supplied with RS232C cable) LAN(-LAN Opt.) Ethernet Interface: 10BaseT, 100BaseT, RJ45 USB Version: USB 1.1; Speed: 460 Kb/s maximum	System Interface											
Remote Control IEEE-488 (CPIB) talker listener. Subset: AHI, C0, DC1, DT1, L3, PP0, RL2, SHI, SR1, T6, IEEE-488.2 SCPI Syntax RS232CInterface 9 pin Sub-D connector (Supplied with RS232C cable) LAN(-LAN Opt.) Ethernet Interface: 10BaseT, 100BaseT, RJ45 USB Version: USB 1.1; Speed: 460 Kb/s maximum	Inputs											
IEEE488 Interface IEEE488 (CPIB) talker listener. Subset: AH1, C0, DC1, DT1, L3, PP0, RL2, SH1, SR1, T6, IEEE488.2 SCPI Syntax RS232CInterface 9 pin Sub-D connector (Supplied with RS232C cable) LAN(-LAN Opt.) Behernet Interface: 10BaseT, 100BaseT, R145 USB Version: USB 1.1; Speed: 460 Kb/s maximum	1	Function Strobe / Tri	gger out, Clock/Lock									
RS232CInterface 9 pin Sub-D connector (Supplied with RS232C cable) LAN(-LAN Opt.) Bhernet Interface: 10BaseT, 100BaseT, RJ45 USB Version: USB 1.1; Speed: 460 Kb/s maximum												
LAN (-LAN Opt.) Ethernet Interface: 10BaseT, 100BaseT, RI45 USB Version: USB 1.1; Speed: 460 Kb/s maximum					3, PP0, RL2, SH1, S	SK1, T6, 1	IEEE-488.2	SCPI Syntax				
USB Version: USB 1.1; Speed: 460 Kb/s maximum												
			, , , , ,	-								
	Output Relay											

Note: Specifications are subject to change without notice. Specifications are warranted over an ambient temperature range of 25°± 5° C. Unless otherwise noted, specifications are per phase for a sinewave with a resistive load and apply after a 30 minute warm-up period. For three phase configurations, all specifications are for L-N. Phase angle specifications are valid under balanced load conditions only.

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