### Specifications

#### Single-phase models / polyphase models (1.5 kVA to 36 kVA)

#### Models/systems

#### Each item applies to all models unless indicated otherwise.

Single-phase models	DP015S, DP030S, DP045S, DP060S, DP075S, DP090S, DP105S, DP120S, DP240S, DP360S
Single-phase three-wire models	DP030D, DP060D, DP090D, DP120D
Three-phase models	DP045T, DP090T
Polyphase systems	Configuration of a single-phase three-wire system with two units of the same single-phase model, or configuration of a three-phase system with three units (connected with system cable). Note: In a polyphase system, the specifications of the constituent single-phase models are the specifications for each phase. The system must be configured by same model and same firmware. Please inquire for details about specifications.

• The following settings and conditions are provided unless otherwise noted. · Load: resistance load for power factor 1 AGC/Auto Cal: OFF · Signal source: INT (internal signal source) Current limiter: factory default setting · Output voltage waveform: sine wave Output terminal: rear panel output terminal block [set] indicates a setting value. When two values are indicated with a slash, this means that specifications vary depending on the output range. The value before the slash is for 100 V specifications, and the value after the slash is for 200 V specifications. 1P : Single-phase 2-wire

1P3W : Single-phase 3-wire 3P3W : Three-phase 3-wire 3P4W : Three-phase 4-wire

#### AC/DC Mode, Signal Source

	Single-phase models	Single-phase 3-wire models, Three-phase models
AC/DC mode	AC, ACDC, DC	AC, ACDC
Signal source	INT, VCA, SYNC, EXT, ADD	INT, VCA, SYNC

Model name		DP015S	DP030S	DP045S	DP060S	DP075S	DP090S	DP105S	DP120S	DP240S	DP360S		
Output powe	r *2	1.5 kVA	3 kVA	4. 5kVA	6 kVA	7.5 kVA	9 kVA	10.5 kVA	12 kVA	24 kVA	36 kVA		
Mode		Single-phase 2-w Floating output,	, ire it can be used wi	th grounding of L									
Rated output	voltage	100 V/200 V											
Setting mode	•	Balanced mode,	Unbalanced mode	(Only when polypl	hase system is cor	nfigured)							
Voltage settin range	g Phase voltage		0.0 V to 160.0 V/0.0 V to 320.0 V, 0.0 Vp-p to 454.0 Vp-p/0.0 Vp-p to 908.0 Vp-p (Arbitrary waveform) For all phases in balanced mode and each phase in unbalanced mode										
	Line voltage		.0 V to 320.0 V / 0.0 V to 640.0 V (1P3W), 0.0 V to 277.2 V / 0.0 V to 554.2 V (3P4W) hly for balanced mode for sine wave when polyphase system configured.										
	Resolution	Phase voltage se	ase voltage setting : 0.1 V, line voltage setting : 0.2 V										
	Accuracy *3	± (0.5% of set +	0.6 V/1.2 V)			_							
Max. current	*4 *5	15 A/7.5 A	30 A/15 A	45 A/22.5 A	60 A/30 A	75A/37.5 A	90 A/45 A	105 A/52.5 A	120 A/60 A	240 A/120 A	360 A/180 /		
Max. peak cu	irrent *4 *6	4 times value of r	maximum current.										
Load power	actor range	0 to 1 (lead or lag	to 1 (lead or lag, at 45 Hz to 55 Hz, external power injection and regeneration are not available.)										
Frequency s	etting range	AC mode : 40 Hz	to 550 Hz, ACDC	mode : 1 Hz to 55	0 Hz								
	Resolution	0.01 Hz											
	Accuracy	±0.01% of setting	g (23°C±5°C)										
Frequency st	ability *7	±0.005%											
Output wave	form	Sine, arbitrary (1	6 types), clipped s	ine (3 types)									
Output on ph	ase *8	0.0 deg. to 359.9	deg. variable (res	olution 0.1 deg.)									
Output off ph	ase *8	e *8 0.0 deg. to 359.9 deg. variable (resolution 0.1 deg. selectable between active or inactive)											
Phase angle	setting range	L2 phase : 0 deg. to 359.9 deg. (1P3W)											
(unbalanced	mode)	L2 phase : 0 deg. to 359.9 deg., L3 phase : 0 deg. to 359.9 deg. (3P4W)											
	Resolution	0.1 deg.											
	Accuracy *9	45 Hz to 65 Hz :	±1.0 deg., 40 Hz to	550 Hz : ±2.0 deg	].								
DC offset *1(		Within ±20 mV (t	yp., fine adjustmer	nt available)									
Output powe	r *2	1.5 kW	30 kW	4.5 kW	6 kW	7.5 kW	9 kW	10.5 kW	12 kW	24 kW	36 kW		
Rated output	voltage	Floating output, it	t can be used with	grounding of Lo te	rminal.								
Mode		100 V/200 V											
Rated output	voltage	-227.0 V to +227	7.0 V/-454.0 V to +	454.0 V									
Rated output	Resolution	0.1 V											
	Accuracy *12	± (10.5% of set I	+0.6 V/1.2 V)										
Max. current	*13	15 A/7.5 A	30 A/15 A	45 A/22.5 A	60 A/30 A	75 A/37.5 A	90 A/45 A	105 A/52.5 A	120 A/60 A	240 A/120 A	360 A/180 /		
Max. instantar	neous current *14	4 times value of m	aximum current.										
Dutput voltage stability phase voltage)		Fluctuation with o		within ±0.15 V/±0.		,	45 Hz to 65 Hz), w	vithin ±0.5 V/±1.0 V	(40 Hz to 550 Hz)				

Power Outpu	t (Single-phase)	3-wire and 1	Three-phase)
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Mo	del name	Sing	e-phase 3-wire	DP030D	DP060D	DPO				
		Thre	e-phase			-				
	Output po	ower *	2	3 kVA	6 kVA	9 k				
	Mode			Single-phase 3-wire Floating output, it can be us	Single-phase 3-wire Floating output, it can be used with grounding of Lo terminal.					
	Rated ou	tput v	oltage	Phase voltage : 100 V/200 V						
	Setting m	node		Balanced mode, unbalanced	mode					
	Voltage se range	etting	Phase voltage	0.0 V to 160.0 V/0.0 V to 320. For all phases in balanced mo	0 V, 0.0 Vp-p to 454.0 Vp-p/0.0 ode and each phase in unbalar					
			Line voltage	0.0 V to 320.0 V / 0.0 V to 640 Only for balanced mode for si	).0 V ne wave when polyphase syst	em cofigured.				
	Resolu		Resolution	Phase voltage setting : 0.1 V, line voltage setting : 0.2 V						
-			Accuracy *3	± (0.5% of set + 0.6 V/1.2 V)						
AC output *1	Max. curr	rent *4	¥*5	15 A/7.5 A	30 A/15 A	45 A/2				
đ	Max. peak current *4 *6		rent *4 *6	4 times value of maximum current.						
ğ	Load power factor range		ctor range	0 to 1 (lead or lag, at 45 Hz to	65 Hz, external power injection	on and regenera				
	Frequenc	cy set	ting range	AC mode : 40 Hz to 550 Hz, ACDC mode : 1 Hz to 550 Hz						
			Resolution	0.01 Hz						
			Accuracy	±0.01% of setting (23°C±5°C)						
	Frequence	cy stal	bility *7	±0.005%						
	Output w	avefo	rm	Sine, arbitrary (16 types), clip	ped sine (3 types)					
	Output or	n pha	se <mark>*8</mark>	0.0 deg. to 359.9 deg. variable	e (resolution 0.1 deg.)					
	Output of	ff pha	se <mark>*8</mark>	0.0 deg. to 359.9 deg. variable	e (resolution 0.1 deg. selectab	le between acti				
			etting range	L2 : 180 deg. ±35 deg						
	(unbalan	ced	Resolution	0.1 deg.						
	mode)		Accuracy *9	45 Hz to 65 Hz : ±1.0 deg., 40 Hz to 550 Hz : ±2.0 deg.						
	DC Offse	t *10		Within ±20 mV (typ., fine adju	stment available)					
	tput voltag		oility	Fluctuation with input voltage						
(pł	nase voltag	je)			t *16 : within ±0.15 V/±0.30 V ( perature *17 : within ±0.01%/°C					
	tput voltag nase voltag		ortion factor	0.5% or lower (40 Hz to 550 H	lz, 50% or higher of rated outp	out voltage, max				

\*2 : In the case that the power input voltage is 1P 170 V or lower, models with 6 kVA or higher have the limit on the power capacity

\*3 : In the case of 10 V to 150 V/20 V to 300 V, sine wave, no load, 45 Hz to 65 Hz, DC voltage setting 0 V, 23°C ±5°C

\*4 : For single-phase 3-wire and three-phase, value is phase current. \*5 : If the output voltage is higher than the rated value, this is limited (lowered) to satisfy the power capacity. If there

is the DC superimposition, the RMS current of AC+DC satisfies the maximum current. In the case of 40 Hz or lower or 400 Hz or higher, and the ambient temperature is 40°C or higher, the maximum current may decrease \*6 : For the capacitor input type rectified load (crest factor=4), the rated output voltage, and 45 Hz to 65 Hz

\*7 : For 45 Hz to 65 Hz, the rated output voltage, no load and the resistance load for the maximum current,

and the operating temperature. \*8 : Set for L1 phase, the component of the phase angle setting is added for the other phases.

\*9 : In the case of 50 V or higher, sine wave, and same load conditions and voltage setting for all phases.

\*10: In the case of AC mode and 23°C +5°C

\*11: (V]=Vdc, [A]=Adc, and the polarity is relative to Lo terminal, unless otherwise specified.
\*12: In the case of -212 V to -10 V, +10 V to +212 V/-424 V to -20 V, +20 V to +424 V, no load, AC setting 0 V, 23°C ±5°C.

#### Power Input

Model name	Single-phase	DP015S	DP030S	DP045S	DP060S	DP075S	DP090S	DP105S	DP120S	DP240S	DP360S		
	Single-phase 3-wire	_	DP030D		DP060D		DP090D		DP120D				
	Three-phase	—		DP045T			DP090T						
Voltage/Phas	Voltage/Phase*18 Overvoltage category II												
(Specifird on o	order)	AC100 V to 230 V±10% (Maximum AC100 V to 230 V±10% (Maximum voltage 250 V), 1P or AC200 V to 220 V±15% (Maximum Voltage 250 V).							/±15% (Maximum				
		voltage 250 V), 1	Р	AC200 V to 220 V	C200 V to 220 V±15% (Maximum voltage 250 V), 3P3W or						voltage 250 V), 3P3W or		
				AC380 V±15% (N	AC380 V±15% (Maximum voltage 433 V), 3P4W					AC380 V±15% (Maximum voltage			
										433 V), 3P4W			
Frequency		50 Hz ±2 Hz or 60	0 Hz ±2 Hz										
Power factor*	19	0.95 or more (typ	., at AC100 V inpu	t), 0.90 or more (ty	yp., at AC200 V inp	out)				0.90 or more (typ	.)		
Efficiency*19		77% or more (typ	77% or more (typ., at AC200 V input) 77% or more (typ.)										
Power consum	mption (Maximum)	2.25 kVA	4.5 kVA	6.75 kVA	9 kVA	11.25 kVA	13.5 kVA	15.75 kVA	18 kVA	36 kVA	54 kVA		

18: In the 6 kVA or higher models, the output capacity is limited to 4.5 kW for the 170 V or lower input. \*19: In the case of AC-INT, the rated output voltage, the resistance load at the maximum current, 45 Hz to 65 Hz output.

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090D	DP120D		
_		DP045T	DP0901
kVA	12 kVA	4.5 kVA	9 kVA
0 Vp-p (Arbitrar	y waveform)		
		1	
		0.0 V to 277.2 V / 0.0 V to 55	4.2 V
100 F A	60 A/30 A	15 4/7 5 4	00 4 /15 4
/22.5 A	60 A/30 A	15 A/7.5 A	30 A/15 A
eration are not av	(cilchlo)		
alion are not av	(diidule.)		
-			
ctive or inactive)			
		L2 : 120 deg. ±35 deg, L3 : 24	40 deg. ±35 deg
0.15 V/±0.3 0V (	45 Hz to 65 Hz), within ±0.5 V/	±1.0 V (40 Hz to 550 Hz)	
aximum output o	current or lower, AC and ACDC r	nodes, THD+N)	

\*13: If the output voltage is higher than the rated value, this is limited (lowered) to satisfy the power capacity. If there is the AC superimposition, the RMS current of DC+AC satisfies the maximum current. In the case that the ambient temperature is 40°C or higher, the maximum current may decrease.

\*14: Instantaneous = within 2 ms, at the rated output voltage \*15: In the case of single-phase input, for power input 90 V to 250 V for 1.5 kVA, 3 kVA, and 4.5 kVA models, power input 170 V to 250 V for the 6 kVA or higher models, power input 200 V reference. In the case of three-phase three-wire input, for power input 170 V to 250 V, power input 200 V reference. In the case of three-phase four-wire input, for power input is 323 V to 433 V, power input 380 V reference. The resistance load at maximum current, the rated output voltage, DC or 45 Hz to 65 Hz.

Transition state immediately after a change of the input power supply voltage is not included. \*16: In the case that the output current is changed from 0% to 100% of maximum output current. For output voltage 75 V to 150 V/150 V to 300 V, no load reference.

However, if the output voltage is higher than the rated value, the maximum current is limited to satisfy the power capacity.

\*17 : For power input 200 V or 380 V, no load, the rated output voltage, DC (only single-phase and single-phase output of the multi-phase model) or 45 Hz to 65 Hz.

## Specifications

#### Measurement Function

Model name	e Single	e-phase	DP015S	DP030S	DP045S	DP060S	DP075S	DP090S	DP105S	DP120S	DP240S	DP360S		
	Single	e-phase 3-wire	DP030D	DP060D	DP090D	DP120D	—	—	—	—	—	—		
	Three	e-phase	DP045T	DP090T	—	—	—	_	_	—		—		
Display		Normal mode	Displays almost a	Il measured and se	etting values (exce	pt harmonic curren	t value)							
		Simple mode	Displays three measurement values (except harmonic current value) enlarged.											
RMS va	alue	Full scale	Phase voltage: 25	0.0 V/500.0 V; Lin	e voltage: 500.0 V/	1000.0 V (single-ph	ase three-wire); 43	3.0 V/866.0 V (thre	e-phase)					
ູ		Resolution	0.1 V											
DC avera	age (avg)	Full scale	±250.0 V/±500.0 \	/										
DC avera	gle phase)	Resolution	0.1 V											
Peak va	alue	Full scale	±250.0 V/±500.0 \	/										
(pk)		Resolution	0.1 V											
RMS va	alue	Full scale	20 A/10 A	40 A/20 A	60 A/30 A	80 A/40 A	100 A/50 A	120 A/60 A	140 A/70 A	160 A/80 A	320 A/160 A	480 A/240 A		
		Resolution	0.01 A								0.1 A			
		Full scale	±20 A/±10 A	±40 A/±20 A	±60 A/±30 A	±80 A/±40 A	±100 A/±50 A	±120 A/±60 A	±140 A/±70 A	±160 A/±80 A	±320 A/±160 A	±480 A/±240 A		
lie (only sing Peak va	gle phase)	Resolution	0.01 A								0.1 A			
Peak va	alue (pk)	Full scale	±80 A/±40 A	±160 A/±80 A	±240 A/±120 A	±320 A/±160 A	±400 A/±200 A	±480 A/±240 A	±560 A/±280 A	±640 A/±320 A	±1280 A/±640 A	±1920 A/±960 A		
Max/Mir		Resolution	0.01 A											
individua	al display	Hold	Hold the maximum	n values of I max I	and I min I with the	e polarity (with the o	clear function)							
Active (	(W)	Full scale	1800 W	3600 W	5400 W	7200 W	9000 W	10800 W	12600 W	14400 W	28800 W	43200 W		
N		Resolution	0.1 W/1 W (1000 V	V or higher)							1 W			
Appare	ent (VA)	Full scale	2250 VA	4500 VA	6750 VA	9000 VA	11250 VA	13500 VA	15750 VA	18000 VA	36000 VA	54000 VA		
<sup>₩</sup> 23		Resolution	0.1 VA/1 VA(1000	VA or higher)							1 VA			
Reactiv		Full scale	2250 var	4500 var	6750 var	9000 var	11250 var	13500 var	15750 var	18000 var	36000 var	54000 var		
*23		Resolution	0.1 var/1 var (1000	) var or higher)							1 var			
Load power		Range	0.00 to 1.00											
*23		Resolution	0.01											
Load crest f		Range	0.00 to 50.00											
		Resolution	0.01											
Synchroniza	ation	Range	38.0 Hz to 525.0 H	lz										
frequency		Resolution	0.1 Hz											
Harmonic current		Range	Up to 40th order.											
24		Full scale (RMS)	20 A/10 A	40 A/20 A	60 A/30 A	80 A/40 A	100 A/50 A	120 A/60 A	140 A/70 A	160 A/80 A	320 A/160 A	480 A/240 A		
		Full scale (%)	100%											
		Resolution	0.01 A or 0.1%								0.1 A or 0.1%			
CO <sub>2</sub> emissio	ions	Contents			n (t-CO2) value for (h): variable (resolu		put power.				-	_		
		e in the polyph									1			

\*21 : In the case that output current is 5% to 100% of maximum current. For phase current in the polyphase model.
\*22 : In the case of sine wave, 50 V or higher output voltage, and that output current is 10% or higher of maximum current.

\*23 : Excluding DC mode \*24 : AC-INT mode, fundamental wave 50 Hz/60 Hz only, phase current. This measurement does not conform to IEC or other standards.

#### Current Limiter

Model	name	Single-phase	DP015S	DP030S	DP045S	DP060S	DP075S	DP090S	DP105S	DP120S	DP240S	DP360S
	Γ	Single-phase 3-wir	DP030D	DP060D	DP090D	DP120D			—	—	—	—
		Three-phase	DP045T	DP090T						—		—
	Positive	e Setting range	+7.5A to +63.0A/	+15.0A to +126.0A/	+22.5A to +189.0A/	+30.0A to +252.0A/	+37.5A to +315.0A/	+45.0A to +378.0A/	+52.5A to +441.0A/	+60.0A to +504.0A/	+120.0A to +1008.0A/	+180.0A to +1512.0A/
ant	curren	(peak value)	+3.7A to +31.5A	+7.5A to +63.0A	+11.2A to +94.5A	+15.0A to +126.0A	+18.7A to +157.5A	+22.5A to +189.0A	+26.2A to +220.5A	+30.0A to +252.0A	+60.0A to +504.0A	+90.0A to +756.0A
< current miter	Negativ	e Setting range	-63.0A to -7.5A/	-126.0A to -15.0A/	-189.0A to -22.5A/	-252.0A to -30.0A/	-315.0A to -37.5A/	-378.0A to -45.0A/	-441.0A to -52.5A/	-504.0A to -60.0A/	-1008.0A to -120.0A/	-1512.0A to -180.0A/
= 9	current	(peak value)	-31.5A to -3.7A	-63.0A to -7.5A	-94.5A to -11.2A	-126.0A to -15.0A	-157.5A to -18.7A	-189.0A to -22.5A	-220.5A to -26.2A	-252.0A to -30.0A	-504.0A to -60.0A	-756.0A to -90.0A
Pe	Resoluti	ion	0.1A									
	Limiter of	operation	Automatic recove	ery (continuous) or	output turn-off whe	n the limited state	continues over the	specified time (1 s	to 10 s, resolution 1	l s)		
ent	Setting	range (RMS)	0.8A to 15.8A/	1.5A to 31.5A/	2.3A to 47.3A/	3.0A to 63.0A/	3.8A to 78.8A/	4.5A to 94.5A/	5.3A to 110.3A/	6.0A to 126.0A/	12.0A to 252.0A/	18.0A to 378.0A/
ter			0.8A to 7.9A	1.5A to 15.8A	2.3A to 23.7A	3.0A to 31.5A	3.8A to 39.4A	4.5A to 47.3A	5.3A to 55.2A	6.0A to 63.0A	12.0A to 126.0A	18.0A to 189.0A
RMS current limiter	Resolut	ion	0.1A									
R	Limiter operation Automatic recovery (continuous) or output turn-off when the limited state continues over the specified time (1 s to 10 s, resolution 1 s)											

Note: If you increased or decreased the number of units by the power unit energization setting, the factory default setting corresponding to the capacity is used.

#### Power Unit Energization Setting

Model name	Single-phase	DP015S	DP030S	DP045S	DP060S	DP075S	DP090S	DP105S	DP120S	DP240S	DP360S
	Single-phase 3-wire	DP030D	DP060D	DP090D	DP120D	—			—	—	
	Three-phase	DP045T	DP090T	_						_	
Number of un	its	1	2	3	4	5	6	7	8	8	8
Energizing setting*25 No			Yes					-			

\*25 : Can be set for only a model with more than one unit.

#### Sequence Function

Number of memories	5 (nonvolatile)
Number of steps	255 max. (for each sequence)
Setting range of step time	0.0010 s to 999.9999 s
Operation within step	Constant, keep, linear sweep
Parameters	Output range , AC/DC mode, AC phase voltage, frequency, waveform,
	DC voltage, start phase, stop phase, phase angle, step termination,
	jump count (1 to 9999, or infinite), specification of the jump-to step,
	synchronous step output (2 bit), specification of the branch step,
	trigger output
Sequence control	Start, stop, hold, resume, branch 1, branch 2
Others	1) Sequence function works with AC-INT, ACDC-INT and DC-INT.
	2) AC voltage, frequency, waveform, start phase and stop phase cannot
	be set with DC-INT.
	<ol><li>Phase angle setting is only for the polyphase system.</li></ol>
	Also, the start phase and the stop phase are set for L1 phase and the
	setting value is added to each phase angle of L2 and L3 phase.

#### Simulation

Number of memories	5 (nonvolatile).
Number of steps	6 (initial, normal 1, transition 1, abnormal, transition 2, normal 2).
Step time setting range	0.0010 s to 999.9999 s (0 s can be set for transition steps only).
Operation within step	Constant, keep, linear sweep
Parameters	Output range, AC voltage, frequency, waveform (sine wave only),
	start phase (excluding transition steps), stop phase (excluding
	transition steps), synchronous step (2 bit), trigger output, repeat
	count (1-9999 times or infinite).
Simulation control	Start, stop.
Others	In simulation function, only AC and sine wave, fixed for
	ACDC-INT.

#### Control Software

LUTCHOUS	Remote control	Parameter setting, saving, loading, and others.					
	Status monitor	Monitors and displays status of connected equipment.					
	Logging	Reads and saves measured values.					
	Arbitrary waveform	Waveform creation and edit, transfer, display and file operations					
	Sequence simulation	Sequence data creation, edit, save, transfer, preview, execution control,					
		monitor/display during execution, and others.					
EINIUTITIETT	CPU	300 MHz min. (1.6 GHz min. recommended)					
	Memory	128 MB or more. (512 MB min. recommended)					
	Free hard disk space	64 MB or more.					
	Display	1024 × 768 pixels or more, and 256 colors or more					
	OS	Windows 7 / 8.1 / 10 (32 bit / 64 bit) (Microsoft)					
	Disk drive	CD-ROM drive					
	Interface	USB 1.1 full-speed					

#### General Information

Model name	Single-phase	DP015S	DP030S	DP045S	DP060S	DP075S	DP090S	DP105S	DP120S	DP240S	DP360S	
	Single-phase 3-wire	—	DP030D		DP060D		DP090D	—	DP120D			
	Three-phase			DP045T			DP090T					
Withstanding	voltage	AC 1500 V or DC 2130 V (inputs vs. outputs/chassis, inputs/chassis vs. outputs)										
Insulation resistance		30 MΩ or higher (DC 500 V), (inputs vs. outputs/chassis, inputs/chassis vs. outputs)										
Operating temperature		0°C to + 50°C										
Operating humidity		5% to 85% RH, (Absolute humidity 1 to 25 g/m <sup>3</sup> , no condensation)										
Dimensions (W×H×D) mm (no protrusions)		430×3	98×562	430×665×562		430×1021×562		430×1287×562		860×1463×649	1290×1463×649	
Weight (approx.)		38 kg	50 kg	70 kg	82 kg	110 kg	125 kg	140 kg	155 kg	345 kg	510 kg	
Chassis		Type1		Type2		Туре3		Type4		Type5	Туре6	
Accesories		Instruction manu	al. control software	e. LabVIEW driver	(version 8.6 or hig	her), power cable						

Head Office

# PROGRAMMABLE AC POWER SOURCE DP series

#### Other Functions

Setting	etting Voltage (RMS) Phase voltage, line to line voltage (1P3W, 3P4W)						
limitation Frequency		requency	Upper limit or lower limit.				
Remote s	sensi	ng	Voltage detection point is output terminal or sensing input terminal.				
			(switchable)				
AGC			Function for continuously performing automatic correction so that the RMS				
			value of the detection point is equal to the voltage setting value.				
			Response time less than 100 ms (typ.) (At DC/50 Hz/60 Hz, rated output				
			voltage)				
Autocal			When the Autocal is on, the detection point is always measured,				
(Automatic calibration)			and the output voltage is continuously corrected so that its RMS value is				
			equal to the output setting value.				
Clipped	Nun	nber of memories	3 (nonvolatile)				
sine	0.		Variable range: 1.10 to 1.41; setting resolution: 0.01;				
wave			RMS value correction: yes				
	Clipping rate		Variable range 40.0% to 100.0%; setting resolution: 0.1%;				
			RMS value correction: no				
Arbitrary	Nun	nber of memories	16 (nonvolatile)				
wave	Wav	eform length	4096 words				
	Amp	litude resolution	16-bit				
External		External	Sync signal source switching: external sync signal (EXT)				
signal inp	out	sync input	or power input (LINE)				
		VCA input	Gain setting range: 0.0 to 227.0 times/0.0 to 454.0 times Resolution: 0.1				
		External	Gain setting range: 0.0 to 227.0 times/0.0 to 454.0 times, Resolution: 0.1				
		signal input	Input frequency range: DC to 550 Hz (sine wave),				
		(EXT / ADD)	DC to 100 Hz (not sine wave).				
Memory	funct	ion	Store and recall settings from nonvolatile memory				
		Number of	Basic settings: 30; sequences: 5; simulations: 5; clipped sine waves: 3;				
		memories	arbitrary waves: 16				
Protectio	ns		Protective operation for abnormal output (output overvoltage, output over				
			current, etc.), power unit error, and internal control error				
			(internal communication error, etc.)				
External	conti	rol I/O	Enables control of the system using external signals (or no-voltage contacts)				
			and state output.				
Interface			USB interface [USB1.1, USBTMC], RS-232 interface (not capable of binary				
(GPIB / L	AN	select on order)	transfer), GPIB interface (IEEE 488.1 std 1987) (not capable of binary transfer				
,			or serial polling), LAN interface (LXI 1.4)				
USB memory			Usable memory: conforms to USB 1.1 or USB 2.0,				
			Connector: USB-A (front panel)				
			Readable/writable content: basic setting memory, sequence,				
			AC line simulation, arbitrary wave.				
-	lav c	ontrol	Selects either ON/OFF using output relay, or high-impedance without using				
Output re			output relay.				
Output re	.,						
		orm monitor	Monitors waveform of output voltage or output current. (switchable)				
	avefo	orm monitor					
Output w	avefo	orm monitor	Monitors waveform of output voltage or output current. (switchable)				

Note : The contents of this catalog are current as of January 30th, 2020 Products appearance and specifications are subject to change without notice.
Before purchase contact us to confirm the latest specifications, price and delivery date.

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