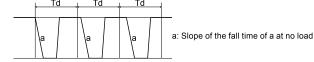
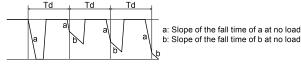
200 W	/ type	PAV 10-20	PAV 20-10	PAV 36-6	PAV 60-3.5	PAV 100-2	PAV 160-1.3	PAV 320-0.65	PAV 650-0.32			
Output												
Rated output voltage *1		10 V	20 V	36 V	60 V	100 V	160 V	320 V	650 V			
Rated output current *2		20 A	10 A	6 A	3.5 A	2 A	1.3 A	0.65 A	0.32 A			
Rated output power		200 W	200 W	216 W	210 W	200 W	208 W	208 W	208 W			
AC input												
Nominal input rating		100 Vac to 240 Vac continuous input, 50 Hz to 60 Hz, single phase										
Input voltage range		85 Vac to 265 Vac										
Input frequency range		47 Hz to 63 Hz										
Input current (typ) *3 (10	00 Vac/200 Vac)	2.65 A/1.31 A	2.62 A/1.29 A	2.76 A/1.37 A	2.69 A/1.33A	2.55 A/1.26 A		2.64 A/1.30 A				
Power factor (typ) (100 Vac/200 Vac, at th	ne rated output power)				0.99	0.98						
Efficiency (typ) *3		76% / 77.5%	77% / 79%	79% / 80.5%	79% / 80.5%	79% / 81%		79% / 81%				
Inrush current (100 Vac	c/200 Vac) *4		1!	5 A / 30 A or le	ss		2	5 A / 25 A or le	ss			
Constant voltage mode		'										
Maximum line regulatio												
(for the rated output voltage) Maximum load regulation *6		_		0.01% + 2 mV	,			0.01%				
(for the rated output vol						0.5	465		6=1			
Ripple noise *7	20 MHz, p-p	50 mV	50 mV	50 mV	50 mV	80 mV	100 mV	150 mV	250 mV			
	5 Hz to 1 MHz, rms	5 mV	6 mV	6 mV	7 mV	8 mV	10 mV	25 mV	60 mV			
Temperature coefficient			30 PPM /°C (after a 30 minute warm-up, for the rated output voltage) 0.02%									
Aging drift *8 (for the rated output voltage)						2%						
Initial drift *9 (for the rated output voltage)				0.05% + 2 mV	1			0.05%				
Maximum remote sensing compensation voltage (single line (positive or negative))		1 V	1 V	2 V	3 V	5 V		5 V	r			
Rise time *10		15 ms	30 ms	30 ms	50 ms	50 ms	110 ms	170 ms	170 ms			
	At full load *10	12 ms	25 ms	30 ms	40 ms	50 ms	180 ms	270 ms	270 ms			
Fall time	Td (typ) *11	210 ms	250 ms	320 ms	380 ms	1200 ms						
	No load a *12	40 ms	65 ms	85 ms	100 ms	250 ms						
	No load b *13	200 ms	200 ms	290 ms	310 ms	1100 ms	2000 ms	2500 ms	3000 m			
Transient response time	e *14			1 ms or less			2 ms or less					
Output hold time (typ) *	15	15 ms			16 ms 16 ms 15 ms							
Constant current mode												
Maximum line regulatio (at the rated output curi					0.02%							
Maximum load regulation (at the rated output curi				0.01% + 5 mA			0.0)9%	0.15%			
Change in the load due drift of internal compon (at the rated output curi	ents		0.059	% or less (for 3	0 minutes afte	r the load cond	litions are cha	inged)				
Ripple noise *17 (5 Hz t	*	25 mA	15 mA	8 mA	4 mA	3 mA	1.2 mA	0.8 mA	0.5 mA			
Temperature coefficien	t		100 F	PPM /°C (after	a 30 minute wa	arm-up, at the r	ated output c	urrent)	<u>I</u>			
Aging drift *8 (at the rate	ed output current)			·	0.0	5%	· · ·					
Initial drift *9 (at the rate	ed output current)				0.:	1%						
Protection functions	<u> </u>											
Foldback protection		Turns off the output when the operation switches from constant voltage mode to constant current mode or vice versa. Can be set as necessary.										
Overvoltage protection	(OVP)				out voltage fron eding the OVP		ner than the C	VP value. Also	shuts off t			
Overvoltage protection	voltage setting range	0.5 V to 12 V	1 V to 24 V	2 V to 40 V	5 V to 66 V	5 V to 110 V	5 V to 176 V	5 V to 353 V	5 V to 717			
Undervoltage limit (UVI	L)	Prevents the	output voltage	from being se	t lower than th	e UVL value. D	isabled durin	g external cont	rol.			
Undervoltage protectio	n (UVP)	Shuts off the	output when th	ne output volta	ge falls below	the UVP value.						
Overheat protection		Shuts off the output when the output voltage falls below the UVP value. Shuts off the output before the temperature of the internal components exceeds the safe operation temperature.										

200 V	V type	PAV 10-20	PAV 20-10	PAV 36-6	PAV 60-3.5	PAV 100-2	PAV 160-1.3	PAV 320-0.65	PAV 650-0.32		
Setting and readback (USB, RS232, RS485, o	ptional LAN in	terface)	'			·	,			
	Accuracy		0.05% of	0.05% of the output voltage + 0.05% of the rated output voltage							
Output voltage setting	Number of decimal digits		3 di	igits			2 di	igits			
	Resolution			Appr	ox. 1/60000 of	rated output v	oltage				
	Accuracy *18	0.1% of output current + 0.1% of the rated output current						the rated outpu	ut current		
Output current setting	Number of decimal digits	3 di	gits			4 d	igits				
	Resolution	Approx. 1/60000 of rated output current									
Output voltage	Accuracy	0.05% of the rated output voltage 0.05% of the output voltage of the rated output									
readback	Resolution	Approx. 1/60000 of rated output voltage									
Output current	Accuracy *18	0.1% of output current + 0.3% of the rated output current									
readback	Resolution	Approx. 1/60000 of rated output current									
Front panel											
Control function		Knobs (endProtectionOutput shuCommunicBaudrate, aExternal co	coders) for sett functions (OVI toff function (c ation functions address setting ontrol: Configu	ting OVP,UVP, P, UVP, UVL, f output on/off co s: Standard eq g ration using ex		n) SB, RS232, RS (5 V or 10 V) (6485. LAN opti or external resi	onal. stance (5 kΩ o	ŕ		
Output voltage display	Accuracy			0.5%	of the rated out	put voltage ±	1 count				
Output voltage display	Number of decimal digits		2 di	igits			1 c	ligit			
Output current display	Accuracy			0.5%	of the rated out	put current ±	1 count				
Catput current display	Number of decimal digits	2 di	gits			3 d	igits				
LED display		Green: FINE, MENU, SET, ALARM, REM, OUTPUT, CV, CC Red: ALARM (OVP, UVP, OTP, FOLD, AC FAIL)									
Setting keys		FINE, MENU, SET, ALARM, REM, OUTPUT									

- *1. The minimum voltage is 0.1 % of the rated output voltage.
- $^{\star}2.$ The minimum current is 0.2 % of the rated output current.
- *3. Input voltage 100 Vac/200 Vac, at the rated output power, ambient temperature 25 °C If the LAN option is built in, the efficiency decreases by 0.5 % and the input current increases by 0.5 %.
- *4. Excludes input surge current (duration 0.2 ms or less) applied to the built-in noise filter section.
- *5. 85 Vac to 132 Vac or 170 Vac to 265 Vac, fixed load
- *6. With the input voltage held constant, the sensing point was measured using remote sensing from no load to full load.
- *7. Models with rated output voltages from 10 V to 100 V were measured using an RC-9131 A 1:1 probe that conforms to the JEITA specifications. Models with rated output voltage from 160 V to 650 V were measured using a 10:1 probe.
- *8. When at least 8 hours has passed after a 30 minute warm-up with the input voltage, load, and ambient temperature held constant
- *9. For 30 minutes after turning on the power with the input voltage, load, and ambient temperature held constant
- *10. Between 10 % and 90 % of the rated resistive load and rated output voltage
- *11. If the output voltage is repeatedly decreased, Td is the minimum duration from a given voltage drop to the next voltage drop.
- *12. Duration for the voltage to change from 90 % to 10 % of the rated output voltage when the output voltage is repeatedly decreased and the duration from a given voltage drop to the next voltage drop is longer than Td.



*13. Duration for the voltage to change from 90 % to 10 % of the rated output voltage when the output voltage is repeatedly decreased and the duration from a given voltage drop to the next voltage drop is shorter than Td.

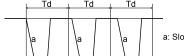


- *14. The amount of time required for the output voltage to return to a value within 0.5 % of the rated output voltage. The change in the load current is 10 % to 90 % of the rating. The output voltage is between 10 % and 100 % of the rating. During local sensing.
- *15. At the rated output power
- *16. The value when the output voltage is changed from the lower limit to the rated voltage in constant current mode with the input voltage held constant
- *17. For models with a 10 V rated output voltage, this is the value for when the output voltage is 2 V to 10 V at the rated output current. For other models, this is the value for when the output voltage is 10 % to 100 % of the rating at the rated output current. Models with rated output voltage from 160 V to 650 V were measured using a 10:1 probe.
- *18. In output current control, the current, linearity, and monitor accuracies do not include the load variation caused by initial drift and temperature drift of internal components.

400 W	type	PAV 10-40	PAV 20-20	PAV 36-12	PAV 60-7	PAV 100-4	PAV 160-2.6	PAV 320-1.3	PAV 650-0.64		
Output		r			ı				T		
Rated output voltage *1		10 V	20 V	36 V	60 V	100 V	160 V	320 V	650 V		
Rated output current *2		40 A	20 A	12 A	7 A	4 A	2.6 A	1.3 A	0.64 A		
Rated output power		400 W	400 W	432 W	420 W	400 W	416 W	416 W	416 W		
AC input											
Nominal input rating		100 Vac to 240 Vac continuous input, 50 Hz to 60 Hz, single phase									
nput voltage range		85 Vac to 265 Vac									
nput frequency range		47 Hz to 63 Hz									
nput current (typ) *3 (10	0 Vac/200 Vac)	5.05 A/2.47 A	4.98 A/2.45 A	5.25 A/2.57 A	5.10 A/2.50 A	4.80 A/2.37 A		5 A / 2.44 A			
Power factor (typ) (100 Vac/200 Vac, at th	e rated output power)				0.	99					
Efficiency (typ) *3		80% / 82%	81% / 83%	83% / 85%	83% / 85%	84% / 88%		84% / 86%			
nrush current (100 Vac	/200 Vac) *4		25	5 A / 25 A or le	ss		2	5 A / 25 A or le	ss		
Constant voltage mode											
Maximum line regulation											
for the rated output volt Maximum load regulatio for the rated output volt	on *6			0.01% + 2mV				0.01%			
	20 MHz, p-p	50 mV	50 mV	50 mV	50 mV	80 mV	100 mV	150 mV	250 m\		
Ripple noise *7		5 mV		6 mV	7 mV	8 mV	100 mV	25 mV			
5 Hz to 1 MHz, rms		SIIIV	6 mV						60 mV		
Temperature coefficient Aging drift *8 (for the rated output voltage)			30 PF	PINI / C (after a		m-up, for the r	ated output vo	oitage)			
			0.050/ . 0 . 1		2%	0.05%					
Initial drift *9 (for the rated output voltage)				0.05% + 2 mV				0.05%			
Maximum remote sensing compensation voltage (single line (positive or negative))		1 V	1 V	2 V	3 V	5V		5 V			
Rise time *10		15 ms	30 ms	30 ms	50 ms	50 ms	80 ms	150 ms	150 ms		
ļ.	At full load *10	10 ms	10 ms	15 ms	30 ms	50 ms	100 ms	150 ms	150 ms		
	Гd (typ) *11	210 ms	250 ms	320 ms	380 ms	1200 ms					
Fall time	No load a *12	40 ms	65 ms	85 ms	100 ms	250 ms					
1	No load b *13	200 ms	200 ms	290 ms	310 ms	1100 ms	2000 ms	2500 ms	3000 m		
Transient response time	e *14		l	1 ms or less				2 ms or less			
Output hold time (typ) *1	5	15 ms			16 ms 15 ms						
Constant current mode									1		
Maximum line regulation (at the rated output curre				0.02%							
Maximum load regulatio		0.01% + 5 mA 0.09%									
Change in the load due drift of internal compone (at the rated output curre	ents .	0.05% or less (for 30 minutes after the load conditions are changed)									
Ripple noise *17 (5 Hz to		70 mA	40 mA	15 mA	8 mA	3 mA	1.5 mA	1 mA	0.6 mA		
Temperature coefficient	•			PPM /°C (after	a 30 minute wa	ırm-up, at the r	ated output c	urrent)	1		
Aging drift *8 (at the rate	ed output current)			·		5%	· · · · · · · · · · · · · · · · · · ·				
nitial drift *9 (at the rate	d output current)				0.:	1%					
Protection functions											
Foldback protection		Turns off the output when the operation switches from constant voltage mode to constant current mode or vice versa. Can be set as necessary.									
Overvoltage protection	(OVP)	Inverter shutoff system. Prevents the output voltage from being set higher than the OVP value. Also shuts off toutput when an output overvoltage (exceeding the OVP value) occurs.									
Overvoltage protection	voltage setting range	0.5 V to 12 V	1 V to 24 V	2 V to 40 V	5 V to 66 V	5 V to 110 V	5 V to 176 V	5 V to 353 V	5 V to 71		
Jndervoltage limit (UVL	.)	Prevents the	output voltage	from being se	t lower than th	e UVL value. D	isabled during	g external cont	rol.		
Jndervoltage protection	n (UVP)	Shuts off the	output when th	ne output volta	ge falls below	the UVP value					
					re of the intern						

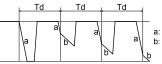
400 V	V type	PAV 10-40	PAV 20-20	PAV 36-12	PAV 60-7	PAV 100-4	PAV 160-2.6	PAV 320-1.3	PAV 650-0.64			
Setting and readback (USB, RS232, RS485, o	ptional LAN in	terface)	•				,				
	Accuracy		0.05% of		0.05% of the output voltage + 0.05% of the rated output voltage							
Output voltage setting	Number of decimal digits		3 d	igits			2 digits					
	Resolution			Appro	ox. 1/60000 of	rated output v	oltage					
	Accuracy *18	0.1% c	f output curre	nt + 0.1% of the	rated output	current	0.2% of	the rated outp	ut current			
Output current setting	Number of decimal digits		3 d	igits			4 digits					
	Resolution	Approx. 1/60000 of rated output current										
Output voltage readback	Accuracy	0.05% of the rated output voltage 0.05% of the output voltage of the rated output vo										
reauback	Resolution	Approx. 1/60000 of rated output voltage										
Output current	Accuracy *18	0.1% of output current + 0.3% of the rated output current										
readback	Resolution	Approx. 1/60000 of rated output current										
Front panel												
Control function		Knobs (endProtectionOutput shuCommunicBaudrate, aExternal co	coders) for sett functions (OVI toff function (c ation functions address setting ontrol: Configu	ting OVP,UVP, P, UVP, UVL, fo output on/off co s: Standard eq g ration using ex	and UVL. oldback) ontrol, shutdow uipped with US ternal voltage	(n) SB, RS232, RS (5 V or 10 V) (current (settin 6485. LAN opti or external resi panel operatic	onal. stance (5 kΩ c	,			
Output voltage display	Accuracy			0.5% (of the rated out	tput voltage ±	1 count					
Output voltage display	Number of decimal digits		2 d	igits			1 c	ligit				
Output current display	Accuracy			0.5%	of the rated ou	tput current ±	1 count					
	Number of decimal digits		2 digits				3 digits					
LED display		Green: FINE, MENU, SET, ALARM, REM, OUTPUT, CV, CC Red: ALARM (OVP, UVP, OTP, FOLD, AC FAIL)										
Setting keys FINE, MENU, SET, ALARM, REM, OUTPUT												

- *1. The minimum voltage is 0.1 % of the rated output voltage.
- *2. The minimum current is 0.2 % of the rated output current.
- *3. Input voltage 100 Vac/200 Vac, at the rated output power, ambient temperature 25 °C If the LAN option is built in, the efficiency decreases by 0.5 % and the input current increases by 0.5 %.
- *4. Excludes input surge current (duration 0.2 ms or less) applied to the built-in noise filter section.
- *5. 85 Vac to 132 Vac or 170 Vac to 265 Vac, fixed load
- *6. With the input voltage held constant, the sensing point was measured using remote sensing from no load to full load.
- *7. Models with rated output voltages from 10 V to 100 V were measured using an RC-9131 A 1:1 probe that conforms to the JEITA specifications. Models with rated output voltage from 160 V to 650 V were measured using a 10:1 probe.
- *8. When at least 8 hours has passed after a 30 minute warm-up with the input voltage, load, and ambient temperature held constant
- *9. For 30 minutes after turning on the power with the input voltage, load, and ambient temperature held constant
- *10. Between 10 % and 90 % of the rated resistive load and rated output voltage
- *11. If the output voltage is repeatedly decreased, Td is the minimum duration from a given voltage drop to the next voltage drop.
- *12. Duration for the voltage to change from 90 % to 10 % of the rated output voltage when the output voltage is repeatedly decreased and the duration from a given voltage drop to the next voltage drop is longer than Td.



a: Slope of the fall time of a at no load

*13. Duration for the voltage to change from 90 % to 10 % of the rated output voltage when the output voltage is repeatedly decreased and the duration from a given voltage drop to the next voltage drop is shorter than Td.

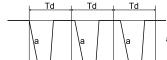


- a: Slope of the fall time of a at no load b: Slope of the fall time of b at no load
- *14. The amount of time required for the output voltage to return to a value within 0.5 % of the rated output voltage. The change in the load current is 10 % to 90 % of the rating. The output voltage is between 10 % and 100 % of the rating. During local sensing.
- *15.At the rated output power
- *16. The value when the output voltage is changed from the lower limit to the rated voltage in constant current mode with the input voltage held constant
- *17. For models with a 10 V rated output voltage, this is the value for when the output voltage is 2 V to 10 V at the rated output current. For other models, this is the value for when the output voltage is 10 % to 100 % of the rating at the rated output current. Models with rated output voltage from 160 V to 650 V were measured using a 10:1 probe.
- *18. In output current control, the current, linearity, and monitor accuracies do not include the load variation caused by initial drift and temperature drift of internal components.

600 W	/ type	PAV 10-60	PAV 20-30	PAV 36-18	PAV 60-10	PAV 100-6	PAV 160-4	PAV 320-2	PAV 650-1		
Output											
Rated output voltage *1		10 V	20 V	36 V	60 V	100 V	160 V	320 V	650 V		
Rated output current *2		60 A	30 A	18 A	10 A	6 A	4 A	2 A	1 A		
Rated output power		600 W	600 W	648 W	600 W	600 W	640 W	640 W	650 W		
AC input											
Nominal input rating		100 Vac to 240 Vac continuous input, 50 Hz to 60 Hz, single phase									
Input voltage range		85 Vac to 265 Vac									
Input frequency range		47 Hz to 63 Hz									
Input current (typ) *3 (10	00 Vac/200 Vac)	7.48 A/3.69 A	7.22 A/3.56 A	7.70 A/3.80 A	7.13 A/3.52 A	7.13 A/3.52 A	7.47 A	/ 3.69 A	7.59 A/3.75		
Power factor (typ) (100 Vac/200 Vac, at th	ne rated output power)				0.99	/ 0.98					
Efficiency (typ) *3		81% / 83%	84% / 86%	85% / 87%	85% / 87%	85% / 87%	86.5% / 88.5%	87% / 88.5%	86.5% / 88.59		
Inrush current (100 Vac	c/200 Vac) *4	30 A / 30 A or less 30 A / 30 A or less									
Constant voltage mode	•										
Maximum line regulatio											
(for the rated output voltage) Maximum load regulation *6 (for the rated output voltage)				0.01% + 2 mV	,			0.01%			
· · · · ·	20 MHz, p-p	50 mV	50 mV	50 mV	50 mV	80 mV	100 mV	150 mV	250 mV		
Ripple noise *7	5 Hz to 1 MHz, rms	5 mV	5 mV	5 mV	12 mV	15 mV	10 mV	30 mV	60 mV		
Temperature coefficient		0 1111					rated output vo		00 1111		
Aging drift *8 (for the ra				0.05%	oo minato wa		Tatou output vo	0.02%			
Initial drift *9 (for the rated output voltage)				0.05% + 2 mV	0.05%						
Maximum remote sensing compensation voltage (single line (positive or negative))		1 V	1 V	2 V	3 V	5 V		5 V			
Rise time *10		50 ms	50 ms	50 ms	50 ms	100 ms	55 ms	75 ms	75 ms		
	At full load *10	25 ms	25 ms	25 ms	25 ms	80 ms	65 ms	85 ms	85 ms		
	Td (typ) *11	285 ms	425 ms	450 ms	570 ms	1370 ms			-		
Fall time	No load a *12	65 ms	110 ms	155 ms	175 ms	375 ms					
	No load b *13	280 ms	470 ms	470 ms	500 ms	1200 ms	2000 ms	2500 ms	3000 ms		
Transient response time	e *14			1 ms or less				2 ms or less	<u> </u>		
Output hold time (typ) *		15	ms		16 ms 14 ms						
Constant current mode											
Maximum line regulatio (at the rated output curi				0.02%							
Maximum load regulation (at the rated output curi			0.09%								
Change in the load due drift of internal compon (at the rated output curi	ents	(for 3	0 minutes afte	0.15% or less r the load con	0.05% or less (for 30 minutes after the load conditions are changed)						
Ripple noise *17 (5 Hz t		150 mA	75 mA	25 mA	8 mA	5 mA	2 mA	1.5 mA	1 mA		
Temperature coefficien	t		100 P	PM /°C (after	a 30 minute wa	arm-up, at the	rated output c	urrent)	1		
Aging drift *8 (at the rate	ed output current)			·		5%	· ·				
Initial drift *9 (at the rate	ed output current)	0.3%	0.1	5%	0	1%		0.1%			
Protection functions											
Foldback protection		Turns off the output when the operation switches from constant voltage mode to constant current mode or vice versa. Can be set as necessary.									
Overvoltage protection	(OVP)	Inverter shutoff system. Prevents the output voltage from being set higher than the OVP value. Also shuts off the output when an output overvoltage (exceeding the OVP value) occurs.									
Overvoltage protection	voltage setting range	0.5 V to 12 V	1 V to 24 V	2 V to 40 V	5 V to 66 V	5 V to 110 V	5 V to 176 V	5 V to 353 V	5 V to 717 \		
Undervoltage limit (UVI	L)	Prevents the	output voltage	from being se	t lower than th	e UVL value. I	Disabled during	g external con	trol.		
Undervoltage protectio	n (UVP)	Shuts off the	output when th	ne output volta	ge falls below	the UVP value	e.				
		01 1 111	output before	· · · · · · · · · · · · · · · · · · ·							

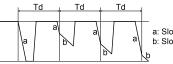
600 V	V type	PAV 10-60	PAV 20-30	PAV 36-18	PAV 60-10	PAV 100-6	PAV 160-4	PAV 320-2	PAV 650-1			
Setting and readback (USB, RS232, RS485, o	ptional LAN in	terface)	•								
	Accuracy		0.05% of	0.05% of the output voltage + 0.05% of the rated output voltage								
Output voltage setting	Number of decimal digits		3 di	igits			2 di	igits				
	Resolution			Appro	ox. 1/60000 of	rated output v	oltage					
	Accuracy *18	0.1% d	f output currer	nt + 0.1% of the	rated output	current	0.2% of	the rated outp	ut current			
Output current setting	Number of decimal digits		3 di	igits			4 di	igits				
	Resolution		Approx. 1/60000 of rated output current									
Output voltage readback	Accuracy		0.05% of the rated output voltage 0.05% of the output voltage of the rated output volt									
теациаск	Resolution	Approx. 1/60000 of rated output voltage										
Output current	Accuracy *18	0.1% of output current + 0.3% of the rated output current										
readback	Resolution	Approx. 1/60000 of rated output current										
Front panel												
Control function		 Knobs (end Protection Output shu Communic Baudrate, a External co 	coders) for sett functions (OVF toff function (c ation functions address setting ontrol: Configu	ting OVP,UVP, P, UVP, UVL, fo output on/off co s: Standard eq g ration using ex	and UVL. oldback) ontrol, shutdow uipped with US ternal voltage	(n) SB, RS232, RS (5 V or 10 V) (current (settin 6485. LAN opti or external resi panel operatic	onal. stance (5 kΩ c	·			
Output voltage display	Accuracy			0.5% (of the rated out	tput voltage ±	1 count					
	Number of decimal digits		2 di	igits			1 c	ligit				
Output current display	Accuracy			0.5%	of the rated ou	tput current ±	1 count					
	Number of decimal digits		2 di	igits			3 di	igits				
LED display		Green: FINE, MENU, SET, ALARM, REM, OUTPUT, CV, CC Red: ALARM (OVP, UVP, OTP, FOLD, AC FAIL)										
Setting keys		FINE, MENU, SET, ALARM, REM, OUTPUT										

- *1. The minimum voltage is 0.1 % of the rated output voltage.
- $^{\star}2.$ The minimum current is 0.2 % of the rated output current.
- *3. Input voltage 100 Vac/200 Vac, at the rated output power, ambient temperature 25 °C If the LAN option is built in, the efficiency decreases by 0.5 % and the input current increases by 0.5 %.
- *4. Excludes input surge current (duration 0.2 ms or less) applied to the built-in noise filter section.
- *5. 85 Vac to 132 Vac or 170 Vac to 265 Vac, fixed load
- *6. With the input voltage held constant, the sensing point was measured using remote sensing from no load to full load.
- *7. Models with rated output voltages from 10 V to 100 V were measured using an RC-9131 A 1:1 probe that conforms to the JEITA specifications. Models with rated output voltage from 160 V to 650 V were measured using a 10:1 probe.
- *8. When at least 8 hours has passed after a 30 minute warm-up with the input voltage, load, and ambient temperature held constant
- *9. For 30 minutes after turning on the power with the input voltage, load, and ambient temperature held constant
- *10. Between 10 % and 90 % of the rated resistive load and rated output voltage
- *11. If the output voltage is repeatedly decreased, Td is the minimum duration from a given voltage drop to the next voltage drop.
- *12. Duration for the voltage to change from 90 % to 10 % of the rated output voltage when the output voltage is repeatedly decreased and the duration from a given voltage drop to the next voltage drop is longer than Td.



a: Slope of the fall time of a at no load

*13. Duration for the voltage to change from 90 % to 10 % of the rated output voltage when the output voltage is repeatedly decreased and the duration from a given voltage drop to the next voltage drop is shorter than Td.



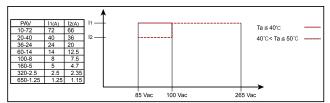
a: Slope of the fall time of a at no load b: Slope of the fall time of b at no load

- *14. The amount of time required for the output voltage to return to a value within 0.5 % of the rated output voltage. The change in the load current is 10 % to 90 % of the rating. The output voltage is between 10 % and 100 % of the rating. During local sensing.
- *15. At the rated output power
- *16. The value when the output voltage is changed from the lower limit to the rated voltage in constant current mode with the input voltage held constant
- *17. For models with a 10 V rated output voltage, this is the value for when the output voltage is 2 V to 10 V at the rated output current. For other models, this is the value for when the output voltage is 10 % to 100 % of the rating at the rated output current. Models with rated output voltage from 160 V to 650 V were measured using a 10:1 probe.
- *18. In output current control, the current, linearity, and monitor accuracies do not include the load variation caused by initial drift and temperature drift of internal components.

ge *1 100 Vac ≤ Vin*3 Ta*4 ≤ 50°C Vin < 100 Vac	10 V	20 V										
100 Vac ≤ Vin*3 Ta*4 ≤ 50°C Vin < 100 Vac	-	20 \/	T .			ı						
Ta*4 ≤ 50°C Vin < 100 Vac		20 V	36 V	60 V	100 V	160 V	320 V	650 V				
	72 A	40 A	24 A	14 A	8 A	5 A	2.5 A	1.25 A				
Ta ≤ 40°C	72 A	40 A	24 A	14 A	8 A	5 A	2.5 A	1.25 A				
Vin < 100 Vac 40°C < Ta ≤ 50°C	66 A	36 A	20 A	12.5 A	7.5 A	4.7 A	2.35 A	1.15 A				
100 Vac ≤ Vin Ta ≤ 50°C	720 W	800 W	864 W	840 W	800 W	800 W	800 W	812.5 W				
Vin < 100 Vac Ta ≤ 40°C	720 W	800 W	864 W	840 W	800 W	800 W	800 W	812.5 W				
Vin < 100 Vac 40°C < Ta ≤ 50°C	660 W	720 W	720 W	750 W	750 W	752 W	752 W	747.5 W				
g		100	0 Vac to 240 Va	c continuous ir	nput, 50 Hz to 6	0 Hz, single pha	ase					
9	85 Vac to 265 Vac											
nge		47 Hz to 63 Hz										
*5	9.00 A/ 4.45 A	9.65 A/ 4.75 A	10.30 A/ 5.10 A	10.00 A/ 4.95 A	9.50 A/ 4.70 A	9.34 A/ 4.61 A	9.34 A/ 4.59 A	9.43 A/ 4.66 A				
(100 Vac/200 Vac, power)				0.99	/ 0.98							
	81% / 83%	84% / 86%	85% / 87%	85% / 87%	85% / 87%	86.5% / 88.5%	86.5% / 89%	87% / 89%				
Vac/200 Vac) *6				30 A / 30	A or less							
node												
ılation *7 ıt voltage)			0.01%									
ulation *8 it voltage)			0.0170 - 21110		0.0170							
20 MHz, p-p	50 mV	50 mV	50 mV	60 mV	80 mV	100 mV	150 mV	250 mV				
5 Hz to 1 MHz, rms	5 mV	5 mV 30 F	ļ	12 mV a 30 minute wa	15 mV rm-up, for the ra	10 mV ated output volta	30 mV age)	60 mV				
ıt voltage)	0.05% 0.02%											
ıt voltage)				0.05%								
ensing compensation positive or negative))	1 V	1 V	2 V	5 V								
	50 ms	50 ms	50 ms	50 ms	100 ms	45 ms	55 ms	55 ms				
At full load *12	25 ms	25 ms	25 ms	25 ms	80 ms	55 ms	65 ms	65 ms				
Td (typ) *13	285 ms	425 ms	450 ms	570 ms	1370 ms							
No load a *14	65 ms	110 ms	155 ms	175 ms	375 ms							
No load b *15	280 ms	470 ms	470 ms	500 ms	1200 ms	2000 ms	2500 ms	3000 ms				
e time *16			1 ms or less				2 ms or less					
yp) *17			10 ms			13 ms	11.5	ms				
node ulation *7			0.01% + 2 mA				0.02%					
t current) ulation *18												
t current) to the temperature drift of	0.15% or less			or less			0.05% or less					
the rated output current)			<u> </u>			, , , , , , , , , , , , , , , , , , ,						
	180 mA							1 mA				
		100	TT MT O (GRO)			atou output our						
			0.3%		70,70		0.1%					
			0.070			L	3.170					
n		· · · · · · · · · · · · · · · · · · ·										
ction (OVP)	Inverter shutoff system. Prevents the output voltage from being set higher than the OVP value. Also shuts off the output when an output overvoltage (exceeding the OVP value) occurs.											
n voltage setting range	0.5 V to 12 V	1 V to 24 V	2 V to 40 V	5 V to 66 V	5 V to 110 V	5 V to 176 V	5 V to 353 V	5 V to 717				
(UVL)	Prevents the o	ents the output voltage from being set lower than the UVL value. Disabled during external control.										
` '			output voltage									
	Ta ≤ 40°C Vin < 100 Vac 40°C < Ta ≤ 50°C ge enge *5 (100 Vac/200 Vac, power) Vac/200 Vac) *6 node ulation *7 ut voltage) ulation *8 ut voltage) at voltage) at voltage) at voltage) At full load *12 Td (typ) *13 No load a *14 No load b *15 at time *16 yp) *17 node ulation *7 t current) ulation *8 to the temperature drift of the rated output current) at rated output current) at rated output current) is Hz to 1 MHz, rms) icient at rated output current) se rated output current)	Ta ≤ 40°C Vin < 100 Vac 40°C < Ta ≤ 50°C 660 W 19 19 20 19 21 21 22 25 20 20 20 20 20 20 20 20 20 20 20 20 20	Ta ≤ 40°C Vin < 100 Vac 40°C < Ta ≤ 50°C	Ta ≤ 40°C	Ta ≤ 40°C	Ta ≤ 40°C Vin < 100 Vac Vin < 100 Vac	Tas 40°C Vin < 100 Vac Vin	Ta s 40°C 720 W 800 W 804 W 801 W 800 W 750 W 750 W 750 W 750 W 752 W 752 W 752 W 752 W 750 W 750 W 750 W 750 W 752 W				

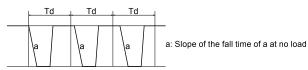
800) W type	PAV PAV PAV PAV PAV PAV PAV PAV PAV 36-24 60-14 100-8 160-5 320-2.5								
Setting and read	back (USB, RS232, R	6485, optional I	_AN interface)							
Output voltage	Accuracy		0.05% of	0.05% of the output voltage + 0.05% of the rated output voltage						
setting	Number of decimal digits		3 d	2 d	igits					
	Resolution			Арр	rox. 1/60000 of	rated output vo	ltage			
	Accuracy *20	0.1%	of output curre	nt + 0.1% of the	e rated output cu	urrent	0.2% of	the rated outpu	ut current	
Output current setting	Number of decimal digits	2 digits			4 digits					
	Resolution			Арр	rox. 1/60000 of	rated output cu	ırrent			
Output voltage readback	Accuracy		0.05% of the rated output voltage 0.05% of the output voltage of the rated output volt							
readback	Resolution			Арр	rox. 1/60000 of	rated output vo	ltage			
Output current	Accuracy *20	0.1% of output current + 0.3% of the rated output current								
readback	Resolution	Approx. 1/60000 of rated output current								
Front panel										
Control function		 Knobs (enco Protection for Output shute Communica Baudrate, and External con 	oders) for setting unctions (OVP, off function (outlion functions: ddress setting otrol: Configura	g OVP,UVP,an UVP, UVL, fold tput on/off cont Standard equip tion using exte	lback)	RS232, RS485 / or 10 V) or ex	. LAN optional. ternal resistand	e (5 kΩ or 10 k	,	
Output voltage	Accuracy			0.5%	of the rated out	put voltage ± 1	count			
display	Number of decimal digits		2 di	igits			1 (digit		
Output current	Accuracy			0.5%	of the rated out	tput current ± 1	count			
display	Number of decimal digits		2 di	igits			3 d	igits		
LED display		Green: FINE, I Red: ALARM (MENU, SET, AI OVP, UVP, OT	_ARM, REM, C P, FOLD, AC F	OUTPUT, CV, CO AIL)					
Setting keys FINE, MENU, SET, ALARM, REM, OUTPUT										

- *1. The minimum voltage is 0.1% the rated output voltage.
- $\ensuremath{^{*}2}.$ The minimum current is 0.2% of the rated output current.
- *3. Vin: Input voltage
- *4. Ta: Ambient temperature (performance depending on the input voltage versus rated output current and ambient tempera-ture shown below)

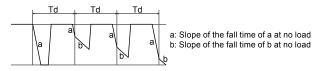


- *5. Input voltage 100 Vac/200 Vac, at the rated output power, ambient temperature 25 °C If the LAN option is built in, the efficiency decreases by 0.5% and the input current increases by 0.5%.
- *6. Excludes input surge current (duration 0.2 ms or less) applied to the built-in noise filter section.
- *7. 85 Vac to 132 Vac or 170 Vac to 265 Vac, fixed load
- *8. With the input voltage held constant, the sensing point was measured using remote sensing from no load to full load.
- *9. Models with rated output voltages from 10 V to 100 V were measured using an RC-9131 A 1:1 probe that conforms to the JEITA specifications. Models with rated output voltage from 160 V to 650 V were measured using a 10:1 probe. At an ambient temperature of 0 °C, measurement was performed after at least 1 minute had passed after startup.
- *10. When at least 8 hours has passed after a 30 minute warm-up with the input voltage, load, and ambient temperature held constant
- *11. For 30 minutes after turning on the power with the input voltage, load, and ambient temperature held constant
- *12. Between 10% and 90% of the rated resistive load and rated output voltage
- *13. If the output voltage is repeatedly decreased, Td is the minimum duration from a given voltage drop to the next voltage drop.

*14. Duration for the voltage to change from 90% to 10% of the rated output voltage when the output voltage is repeatedly decreased and the duration from a given voltage drop to the next voltage drop is longer than Td.



*15. Duration for the voltage to change from 90% to 10% of the rated output voltage when the output voltage is repeatedly decreased and the duration from a given voltage drop to the next voltage drop is shorter than Td.



- *16. The amount of time required for the output voltage to return to a value within 0.5% of the rated output voltage. The change in the load current is 10% to 90% of the rating. The output voltage is between 10% and 100% of the rating. During local sensing.
- *17. At the rated output power
- *18. The value when the output voltage is changed from the lower limit to the rated voltage in constant current mode with the input voltage held constant
- *19. For models with a 10 V rated output voltage, this is the value for when the output voltage is 2 V to 10 V at the rated output current. For other models, this is the value for when the output voltage is 10 % to 100 % of the rating at the rated output current. Models with rated output voltage from 160 V to 650 V were measured using a 10:1 probe.
- *20. In output current control, the current, linearity, and monitor accuracies do not include the load variation caused by initial drift and temperature drift of internal components.