## 1-2. Specifications

	Model	PAL 16-20	PAL 35-10
Ir	put .		1111 00-10
	Input Supply	☐ 120 V ±10%, 50/60 Hz AC, 1¢ ☐ 240 V ±10%, 50/60 Hz AC, 1¢	
	Power consumption (120 VAC, rated load)	Approx. 800 VA	Approx. 800 VA
0υ	tput		
	Output voltage range (10 turns)	0 - 16 V	0 - 35 V
	Voltage resolution (theoretical value)	3 mV	6 mV
	Output current range (1 turn)	0 - 20 A	0 - 10 A
	Current resolution (theoretical value)	50 mA	25 mA
Со	nstant voltage characteristics		<u> </u>
	Regulation *1		
	Source effect (Line regulation) (For ±10% change of line voltage)	1 mV	1 mV
	Load effect (Load regulation) (For 0 to 100% change of output current)	2 mV	2 mV
- :	Ripple and noise *2		
	[rms] (5 Hz — 1 MHz)	500 μVrms	500 μVrms
	[p-p] (DC - 10 MHz) (Typical)	10 mVp-p	10 mVp-p
	Transient response *3 5 - 100% (typical)	50 μsec	
	Temperature coefficient (typical)	50 ppm/°C	
	Remote control, voltage to output voltage raio	Approx. 10 V to 16 V	Approx. 10 V to 35 V
	Remote control, resistance to output voltage ratio	Approx. 10 kΩ to 16 V	Approx. 10 kΩ to 35 V
	Remote control, current to output voltage ratio	Approx. 1 mA to 16 V	Approx. 1 mA to 35 V

(Notes)  $\ \ *1:$  Measured using the sensing terminals.

\*2: Measured with the positive or negative output grounded.

\*3: Recovery time to within 0.05% + 10 mV of the output voltage.

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Model			PAL 16-20	PAL 35-10
Сс	ns.	tant current characteristics		
	Regulation			
		Source effect (Line regulation) (For ±10% change of line voltage)		1 mA
		Load effect (Load regulation) (For 0 to 100% change of Output voltage)	5 mA	5 mA
	R	ipple and noise *2 rms (5 Hz – 1 MHz)	3 mA	5 mA
	Remote control, voltage to output current ratio		Approx. 10 V to 20 A	Approx. 10 V to 10 A
	r	emote control, esistance to output current atio	Approx. 1 kΩ to 20 A	Approx. 1 kΩ to 10 A
		emote control, urrent to output current ratio	Approx. 0.4 mA to 20 A	Approx. 0.5 mA to 10 A
	perating ambient temperature ange		0°C - 40°C (32°F - 104°F)	
0p	era	ating ambient humidity range	10% — 90% RH	
Со	01:	ing method	Forced air cooling with fan	
Ро	laı	rity of output voltage	Positive or negative grounded	
Ιs	ola	ation from ground	<u>+</u> 250V DC	
Pr	ote	ections .		
	Overvoltage protection (OVP)			
		Voltage setting range *4	3 - 18 V	3 - 38 V
		Trigger pulse width *4	50 msec	50 msec
		Protective actions	Oscillation stops. Series control transistor cuts off.	
	γO	verheat protection (OHP)		
		Trip temperature of thermal protector	100°C ±5°C (212°F)	
		Protective actions	Oscillation stops. Series control transistor cuts off.	
Ī	Ir	put fuse rating		
		For 120 VAC source	10 A	10 A
		For 240 VAC source	8 A	8 A
		nermal fuse rating	135 <sup>°</sup> C (275 <sup>°</sup> F)	

(Note) \*4: Typical value

	Model	PAL 16-20	PAL 35-10 .
Me	eters (full scale)		
	DC voltmeter (2.5% of full scale)	16 V F.S	35 V F.S
	DC ammeter (2.5% of full scale)	22 A F.S	12 A F.S
Co	onstant voltage mode indication	C.V: with green LED	
Co	onstant current mode indication	C.C: with red LED	
Ir	nsulation resistances *5		
	Between chassis and line	500V DC more than 30MΩ	
	Between chassis and output terminal	500V DC more than $20M\Omega$	
Di	mensions	210 W × 130 H × 130 H × 310 D mm	
	•	(8.27 W × 5.12 H × 12.20 D in.)	
	Maximum dimensions	230 W × 145 H × 3	368 D mm
		(9.06 W × 5.71 H	× 14.49 D in.)
Ra	ck mounting		
	JIS Std. (mm rack)	With RMF 4M	1 and B23
	EIA Std. (in. rack)	With RMF 4	and B23
We	ight	Approx. 8.5 kg (19 lbs)	
Ac	cessories (in carton)		
	Instruction manual	1 copy	
	Input line fuses (spares)		
	For 120 VAC 10 A or	1 ea	•
	For 240 VAC 8 A		•
	Guard caps	1 set	
	Input cord	3-core cabtire ground wire, 2 approx. 3 m (9	.O square-mm,

(Note) \*5: With ambient humidity not higher than 70% RH.