

# SPECIFICATIONS

Programmable DC Power Supply

MODEL : EX20 - 180



# ODA

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Parameter		Specifications	
Output rating(@0℃ ~ 40℃)	Voltage	0 to 20.0	Maximum 21.0
	Current	0 to 180.0	Maximum 189.0
Output WATT		4.0 KW	
Programming Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.1% + 30.0mV	
	Current	0.1% + 540.0mA	
Readback Accuracy (@25℃ ±5℃)±(%of output + offset)	Voltage	0.1% + 20.0mV	
	Current	0.1% + 360.0mA	
Ripple and Noise(20Hz to 20MHz)		≤ 15mVrms	
Load Regulation (with V-Sensing)		≤ 20 mV	
Line Regulation (with V-Sensing)		≤ 20 mV	
Resolution	Programming/Readback	≤ 0.5mV / ≤ 3mA	
	Display Meter	10mV / 100mA	
Temperature Coefficient After a 30-minute warm-up	Voltage	≤ 4.0mV	
	Current	≤ 54.0mA	
Stability ±(%of output + offset) After a 1 hour warm-up	Voltage	≤ 10.0mV	
	Current	≤ 90.0mA	
Voltage Programming Speed (10%~90% of output voltage)	Half load	Rising time	≤ 300ms
		Falling time	≤ 300ms
Remote Sensing Capability	Voltage Drop	Up to 2.5V per each lead	
	Load Regulation	Add 5 mV to spec for each 1-volt change in the + output lead due to load current changes	
	Load Voltage	Subtract voltage drop in load leads from specified output voltage rating.	
OVP and OCP Accuracy ±(%of output + offset)	OVP	1% + 0.2V	
	OCP	1% + 18.0A	
	Activation Time	< 80ms when maximum output rating	
Output Voltage Overshoot & Undershoot	Power Switch ON/OFF	No overshoot, undershoot : ≤ -0.8V	
	Voltage Output Setting	No overshoot, No undershoot	
Remote Interface		RS232C , RS485 , USB Standard (TCP/IP Option)	
Programming Language		SCPI(Standard Commands for Programmable Instruments)	
Command Processing Time(average)	Apply	Setting	20ms
		Query	32ms
	Output Setting	Voltage & Current Setting	15ms
		Voltage & Current Query	32ms
	Measurement	Voltage & Current Query	32ms
	The Other	Setting & Query	< 35ms
State Storage Memory		Ten user-configurable(voltage,current,protection level)stored states	
Operation Temperature		0℃ ~ 40℃ for full rated output. At higher temperatures the output current is derated linearly to 50% at 55℃ maximum temperature	
Cooling		Isolation DC FAN	
Output Terminal Isolated (maximum, from chassis ground)		±60 Vdc when connecting shorting conductors without insulation to the (+)output to the (+)sense and the (-)output and the (-)sense terminals	
AC Input Ratings	Standard	single phase 220V ± 10% 50~60Hz	
		3-phase 4-wire system(R,S,T,N,G) ± 10% 50~60Hz	
	Option	3-phase 3-wire system(R,S,T,G) ± 10% 50~60Hz	
Calibration Interval	Precision	6 month	
	Recommended	1 year	
Dimensions (19" Standard)		426(W) * 88(H) * 550(D)	
Maximum Input Power(full load)		4.8 KW	
Weight	Net weight	15.5kg	
	Gross weight	17kg	

\*상기모델은 사용자 Application에 최적화하기위해 예고없이 사양변경될 수 있으므로 구입전 확인하시기 바랍니다.