

SPECIFICATIONS

Programmable DC Power Supply

MODEL: OPM-307D



Translent Response Time	Parameter			Specifications		
Manual Programming Accuracy Value Mode Mod	Output rating(@0°C \sim 40°C)					
Programming Accuracy	Channel 2					
2875 1 - 15 C	· ·	\/ - I4				
Machine Mach						
Value Val	· ·					
Course	(@25 C ±5 C)±(%01 Output + Offset)					
Authors	Ripple and Noise(20Hz to 20MHz)					
Content Cont						
Montange	Load Regulation					
Designation Current	Line Regulation					
Propuration						
Page Marker Ma						
Temperature Coefficient Keyf output + offset Voltage Current 0.25% - 3.5mA Current 0.25% - 0.25% 0	Resolution					
After a 30-minute warm-up	Temperature Coefficient +(%of output + offset)					
Stability ± (%of output + offset) Voltage Current O.2%±1.4m.A Current O.2%±1.4m.A Current		1				
After a 1 hour warm-up Current Current Case Cas						
Less than 50µs for output to recover to within 15mV following a change in output current from full load to half load or vice versal for four full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal form full load to half load or vice versal for programming full form full load to half load or vice versal for programming full form full load to half load or vice versal for programming full form full load to half load or vice versal for programming full full full full full full full ful	After a 1 hour warm-up					
No load Falling time S 7.5 V/ms S 3	· '			Less than 5045 for output to recover to within 15mV following a change in output current		
No load Falling time \$3.25 Falling time \$3.25 \text{ Falling time \$3.25 \t		I				
Half load	Voltage Programming Speed	No load				
Half load Fall						
OVP and OCP Accuracy ± (%of output + offset) OVP COCP 5% + 0.5V OCP activation Time 5% + 0.5V 5% + 0.5V Tracking Accuracy 0.1% + 10mV No overshoot, undershoot t = 0.8V Output Voltage Overshoot & Undershoot Power Switch ON/OFF Voltage Output Satting No overshoot, undershoot t = 0.8V Remote Interface GPIB(IEEE - 488.2) Option , R8232C Standard Programming Language SCPI (Standard Commands for Programmable Instruments) Command Processing Time (average) Apply Setting Query 32ms Apply Woltage & Current Setting Voltage & Current Query 32ms 22ms Measurement Voltage & Current Query 32ms 22ms Measurement The Other Setting & Query 43ms 435ms State Storage Memory Ten user-configurable/voltage.current, OVP & OCP level)stored states Voltage Drop Up to 1V per each lead Add 5 mV to spec for each 1-volt change in the + output lead due to load current changes. Load Regulation Load Regulation Changes. Add 5 mV to spec for full rated output. At higher temperature the output current is derated linearly to 50% at 55°C maximum temperature. Cooling Isolation AC FAN AC Input Ratings Standard 220V ± 10% 50-60Hz Option 115v ± 10% 50-60Hz 115V ± 10% 50		Half load				
OVP and OCP Accuracy ± (%of output + offset) OCP 5% + 0.5A Activation Time < 80ms when maximum output rating		OVD	Falling time			
Tracking Accuracy	OVP and OCP Assuracy ±(% of output + offset)					
Tracking Accuracy	OVP and OCP Accuracy ±(%or output + oriset)					
Output Voltage Overshoot & Undershoot Power Switch ON/OFF Voltage Output Setting No overshoot, No undershoot : ≤ −0.8V					ing	
Output Voltage Output Setting No overshoot, No undershoot Remote Interface GPIB(IEEE-488.2) Option, R\$232C Standard Programming Language SCPI(Standard Commands for Programmable Instruments) Command Processing Time(average) Apply Setting Query 28ms Command Processing Time(average) Voltage & Current Setting Query 28ms Voltage & Current Query 32ms Voltage & Current Query 32ms Voltage & Current Query 32ms Voltage Drop Voltage & Current Query 25ms State Storage Memory Ten user-confligurable(voltage.current, OVP & OCP level))stored states Voltage Drop Up to 1V per each lead Load Regulation Add 5 mV to spec for each 1-volt change in the + output lead due to load current changes. Operation Temperature Load Voltage Subtract voltage drop in load leads from specified output voltage atting. Operation Temperature Isolation AC FAN Cooling Isolation AC FAN Output Terminal Isolated (maximum, from charter) Isolation AC FAN AC Input Ratings Standard 220V ± 10% 50~60Hz AC Input Easing Precision	Tracking Accuracy	Power Switch ON/OFF				
Remote Interface Programming Language ScP(Is(Istandard Commands for Programmable Instruments) ScP(Is(Istandard Commands for Programmable Instruments) ScP(Is(Istandard Commands for Programmable Instruments) Setting Query 32ms Query 32ms Voltage & Current Setting 28ms Voltage & Current Ouery 32ms Measurement Voltage & Current Query 32ms Voltage & Current Query 32ms Measurement Voltage & Current Query 32ms Measurement Voltage & Current Query 45ms State Storage Memory 55ms State Storage Memory 75ms 8uffer mode : 32ms Voltage Drop Up to 1V per each lead Add 5 mV to spec for each 1 - volt change in the + output lead due to load current changes. Operation Temperature 80coling 8ubstract voltage drop in load leads from specified output voltage atling. Operation Temperature 91coling 9ubstract voltage drop in load leads from specified output voltage atling. Operation Temperature 91coling 9ubstract voltage drop in load leads from specified output current is derated linearly to 50% at 55° maximum temperature the output current is derated linearly to 50% at 55° maximum temperature Cooling 91coling 9ubstract voltage drop in load leads from specified output current is derated linearly to 50% at 55° maximum temperature Cooling 91coling 9ubstract voltage drop in load leads from specified output current is derated linearly to 50% at 55° maximum temperature Cooling 91coling 9ubstract voltage drop in load leads from specified output current is derated linearly to 50% at 55° maximum temperature Cooling 9ubstract voltage drop in load leads from specified output current is derated linearly to 50% at 55° maximum temperature Cooling 9ubstract voltage drop in load leads from specified output doubted voltage drop in load leads from specified output current is derated linearly to 50% at 55° maximum temperature Cooling 9ubstract voltage drop in load leads from specified output doubted to load current the programmable from specified output developed in the + output current is derated linearly to 50% at 55° maximum temperature Coolin	Output Voltage Overshoot & Undershoot					
Programming Language Apply Apply Apply Command Processing Time(average) Apply Output Setting Query Output Setting Query Outge & Current Setting Query Outge & Current Query Outge & Current Query Outge & Current Query Outge & Current Query Present mode : 47ms Buffer mode : 32ms Fine Other Setting & Query Present mode : 47ms Buffer mode : 32ms The Other Setting & Query Version			-			
Apply Setting 28ms Query 32ms Output Setting 28ms Voltage & Current Setting 28ms Voltage & Current Query 32ms Voltage & Current Query 32ms Measurement Voltage & Current Query 32ms Measurement Voltage & Current Query 32ms State Storage Memory 7 Free user-configurable (voltage, current, OVP & OCP level) stored states Voltage Orop Up to 1V per each lead 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 atiling. Operation Temperature 1 Isolation AC FAN Solution AC FAN AC Input Ratings 2 Standard 2 20V ± 10% 50~60Hz Calibration Interval Precision 6 month Recommended 1 year Maximum Input Power(full load) 17.5 kg Setting 32ms Voltage 2 Submact Voltage 22ms Solution 4 Orbin 1 Isolation Melands Solution 4 Orbin 1 Isolation Melands Output Terminal Isolated (maximum, from chassis ground) 50~60Hz 110V ± 10% 50~60Hz 230V ± 10% 50~60Hz 230V ± 10% 50~60Hz 300mm(W) * 150mm(H) * 465mm(D) Maximum Input Power(full load) 17.5 kg Net weight 17.5 kg						
Command Processing Time(average) Apply Outery Present mode: 47ms Buffer mode: 32ms Outery Outery Tenuser-configurable(voltage, current, OVP & OCP level) stored states Outery Outery Outery Outery Tenuser-configurable(voltage, current, OVP & OCP level) stored states Outery Outery Tenuser-configurable(voltage, current, OVP & OCP level) stored states Outery Outery Outery Tenuser-configurable(voltage, current, OVP & OCP level) stored states Outery Ou				-		
Command Processing Time(average) Output Setting Voltage & Current Setting Voltage & Current Query 32ms Measurement Voltage & Current Query Present mode : 47ms Buffer mode : 32ms Setting & Query < 35ms Setting & Query < 35ms Setting & Query < 35ms State Storage Memory Ten user-configurable(voltage,current,OVP & OCP level)stored states Voltage Drop Up to 1V per each lead 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 atiling. O'C ~ 40°C for full rated output. At higher temperatures the output current is derated linearly to 50% at 55°C maximum temperature Cooling Isolation AC FAN Output Terminal Isolated (maximum, from chasts ground) #30V output is ±60 Vdc when connecting shorting conductors without insulation to the (+) sense and the (-) output and the (-) sense terminals AC Input Ratings Standard 220V ± 10% 50~60Hz Option 110V ± 10% 50~60Hz 230V ± 10% 50~60Hz 240V ± 10% 50~60Hz 250V ± 10% 50~60Hz 250V ± 10% 50~60Hz 250V ± 10% 50~60Hz 250V ± 10% 50~60H	Command Processing Time(average)	Apply				
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Operation Temperature Of C ~ 40°C for full rated output. At higher temperatures the output current is derated linearly to 50% at 55°C maximum temperature Isolation AC FAN Output Terminal Isolated (maximum, from chassis ground) AC Input Ratings Standard Option Standard Option Precision Recommended Injust 150 month Recommended Injust 150 month Recommended Injust 150 month Injust 150 mont		Load Voltage		-		
Inearly to 50% at 55 C maximum temperature				0℃ ~ 40℃ for full rated output. At higher temperatures the output current is derated		
Output Terminal Isolated (maximum, from chassis ground) $ \begin{array}{c} \pm 30V \text{ output is } \pm 60 \text{ Vdc when connecting shorting conductors without insulation to the} \\ (+) \text{ output to the } (+) \text{ sense and the } (-) \text{ output and the } (-) \text{ sense terminals} \\ AC Input Ratings \begin{array}{c} \text{Standard} & 220V \pm 10\% & 50 \sim 60 \text{Hz} \\ 110V \pm 10\% & 50 \sim 60 \text{Hz} \\ 115V \pm 10\% & 50 \sim 60 \text{Hz} \\ 230V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 10\% & 50 \sim 60 \text{Hz} \\ 240V \pm 1$					temperature	
Culput Terminal Isolated (maximum, from chassis ground) (+)output to the (+)sense and the (-)output and the (-)sense terminals	Cooling					
AC Input Ratings	Output Terminal Isolated (maximum, from chassis ground)					
AC Input Ratings		Standard				
Option 115V ± 10% 50~60Hz 230V ± 10% 50~60Hz Callibration Interval Precision 6 month Recommended 1 year Dimensions 300mm(W) * 150mm(H) * 465mm(D) Maximum Input Power(full load) 1157.9W Weight 17.5kg	AC Input Ratings	l '		110V ± 10% 50~60Hz		
Calibration Interval Precision Recommended 6 month Dimensions 300mm(W) * 150mm(H) * 465mm(D) Maximum Input Power(full load) 1157.9W Weight Net weight 17.5kg				115V ± 10% 50~60Hz		
Calibration Interval Recommended 1 year Dimensions 300mm(W) * 150mm(H) * 465mm(D) Maximum Input Power(full load) 1157.9W Weight Net weight 17.5kg				230V ± 10% 50~60Hz		
Recommended 1 year	Calibration Interval	Precision		6 month		
Maximum Input Power(full load) 1157.9W Weight Net weight 17.5kg	oundration interval			1 year		
Weight 17.5kg	Dimensions			300mm(W) * 150mm(H) * 465mm(D)		
Weight	Maximum Input Power(full load)					
Gross weight 19kg		Net weight				
	weight	Gross weight		19kg		