

# PROGRAMMABLE DC POWER SUPPLY



## PTDP - 150W SERIES SPECIFICATIONS



■ Half Rack Case

### ■ FEATURE

- \* PROGRAMMABLE DC POWER SUPPLY
- \* LINEAR TYPE, SINGLE OUTPUT
- \* C.V(CONSTANT VOLTAGE) MODE OPERATION
- \* C.C(CONSTANT CURRENT) MODE OPERATION
- \* AUTO SEQUENCE FUNCTION
- \* SEQUENCE GROUP MEMORY (00~10 GROUP)
- \* MEMORY STORE & RECALL 100 POINTS (STEP)
- \* TIME/SLOPE/COUNTER/O.V.P SETTING FUNCTION
- \* O.V.P/O.C.P PROTECTION FUNCTION
- \* OUTPUT ON/OFF FUNCTION
- \* V-SENSING FUNCTION
- \* RS-232C/RS-485 INTERFACE (GP-IB OPTION)
- \* EXT AUTO CALIBRATION FUNCTION
- \* HIGH STABILITY & HIGH ACCURACY
- \* LOW DRIFT & LOW RIPPLE
- \* 16BIT "LCD" DIGITAL DISPLAY ,BACK LIGHT

### ■ APPLICATION

- \* 각종 전기, 전자 관련 생산 및 R&D 시험용
- \* 충전 및 방전 시스템 의 배터리 충전용
- \* 자동차 부품 구동 TEST 용
- \* 반도체, PCB, 각종 소자 부품 TEST용
- \* 전기 분해 및 도금 등의 전원 인가용
- \* MOTOR 및 관련 부품 구동 TEST 용
- \* 전자부하장치 부하 TEST 용
- \* 품질 보증 및 신뢰성 시험용

### ■ 19" SUB RACK CASE (3U)



SPECIFICATION	MODEL	PTDP-305	PTDP-503	PTDP-1001	PTDP-1501	PTDP-2001
	OUTPUT	30V 5A	50V 3A	100V 1A	150V 1A	200V 1A
DC OUTPUT	WATTAGE	0 ~ 150W	150W	100W	150W	200W
	VOLTAGE (C.V)	0 ~ 30V	0 ~ 50V	0 ~ 100V	0 ~ 150V	0 ~ 200V
	CURRENT (C.C)	0 ~ 5A	0 ~ 3A	0 ~ 1A	0 ~ 1A	0 ~ 1A
Programming Accuracy (At 25°C ±5°C)	VOLTAGE	0.06% + 10mV	0.06% + 20mV	0.06% + 60mV	0.06% + 80mV	0.06% + 120mV
	CURRENT	0.1% + 5mA	0.1% + 5mA	0.1% + 3mA	0.1% + 3mA	0.1% + 2mA
RIPPLE & NOISE (from 20Hz to 20MHz)	VOLTAGE(rms/p-p)	0.01% + 1.5mV/10mV	0.01% + 1.5mV/12mV	0.01% + 15mV/30mV	0.01% + 15mV/30mV	0.01% + 25mV/50mV
	CURRENT	0.01% + 10mA	0.01% + 6mA	0.01% + 5mA	0.01% + 5mA	0.01% + 3mA
Readback Accuracy (At 25°C ±5°C)	VOLTAGE	0.06% + 15mV	0.06% + 20mV	0.06% + 60mV	0.06% + 80mV	0.06% + 120mV
	CURRENT	0.1%+8mA	0.1%+6mA	0.1%+3mA	0.1%+3mA	0.1%+2mA
LOAD REGULATION	VOLTAGE	7mV	10mV	15mV	20mV	30mV
	CURRENT	5mA	3mA	3mA	3mA	3mA
LINE REGULATION	VOLTAGE	3mV	3mV	15mV	20mV	30mV
	CURRENT	2mA	2mA	2mA	2mA	2mA
CONTROL & DISPLAY RESOLUTION	VOLTAGE	1mV	10mV	10mV	10mV	10mV
	CURRENT	1mA	0.1mA	0.1mA	0.1mA	0.1mA
WEIGHT (APPROX)		11 Kg	10 Kg	10 Kg	10 Kg	11 Kg
DIMENSION (W*H*D mm)	Bench Type	W:240 x H:177 x D:360 mm				
	Rack Type	W:432 x H:133 x D:360 mm (Standard 19" 3U Half SubRack Case)				
RECTIFICATION TYPE		LINEAR Transformer Type & FET TR Control Type				
OPERATING MODE		C.V ↔ C.C AUTO Change Mode & Only C.C Mode				
DISPLAYER	VOLTAGE	2 x 20 VFD or LCD Digital Display OF 5 Reading/Sec				
	CURRENT	2 x 20 VFD or LCD Digital Display OF 5 Reading/Sec				
PROTECTION SETTING	OVER VOLTAGE	Full Scale Of DC Output Voltage + 7% (Output shut down)				
	OVER CURRENT	Full Scale Of DC Output Current + 2% (Only O.C.P Output Mode Output shut down)				
	TEMPERATURE	Only Heat Sink 85°C (+/-0.05% after 20 minute warm up, constant Line, Load & Temperature)				
AUTO SEQUENCE FUNCTION	AUTO RUN STEP	Maximum 100 STEP				
	MEMORY GROUP	0 ~ 9 GROUP Memory & Recall				
	SETTING TIME	1msec ~ 50,000 sec [Minimum Time Ability ≤ 10%]				
	SLOPE TIME	1msec ~ 1,000 sec [Minimum Time Ability ≤ 10%]				
COUNTER	1 ~ 50,000 CYCLE ("0" SET: ∞)					
TRANSIENT RECOVERY TIME		150 μs (50% Load Charge, Minimum Load 0.5A)				
MEMORY ADDRESS		Max. 100 STEP (VOLTAGE, CURRENT, TIME, SLOPE, OVP)				
INTERFACE FOR PC		RS-232C & RS-485 (Baud Rate : 4800 bps ~ 19200 bps / Default : 9600 bps) // GP-IB (Option)				
AC INPUT SOURCE		AC 110V / 220V / 380V / 440V ± 10%, 50/60Hz (CUSTOMER MADE)				
AC-DC OUTPUT EFFICIENCY		AC Input 1-Phase Approx. 50% ~ 65%				
OPERATING ENVIRONMENT		0~50°C, 80% R.H.				
ACCESSORIES		AC Input Cord, Manual, DC Output Cable, Software(RS-232C Demo) CD, RS-232C Cable, V-Sense Cable				
OPTION FUNCTION		*[1] (+)-(-) Bi-Polar 양전원기능 & Pulse/Reverse (정역)기능 *[2] EXT Analog Input/Output *[3] EXT DC Output ON/OFF Control				

\* 기타 용량 및 주문제작 가능하오니 문의 바랍니다.

\* 파워티엠 - [www.powertm.co.kr](http://www.powertm.co.kr)