

# PROGRAMMABLE DC POWER SUPPLY

## PTDP - 300W SERIES SPECIFICATIONS



■ 19" SUB RACK CASE (3U)

### ■ 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 TEST 용
- \* 전기 분해 및 도금 등의 전원 인가용
- \* MOTOR 및 관련 부품 구동 TEST 용
- \* 전자부하장치 부하 TEST 용
- \* 품질 보증 및 신뢰성 시험용

* SPECIFICATION	MODEL	PTDP-3010	PTDP-505	PTDP-605	PTDP-1003	PTDP-1502	PTDP-3001
	OUTPUT	30V 10A	50V 5A	60V 5A	100V 3A	150V 2A	300V 1A
DC OUTPUT	WATTAGE	300W	250W	300W	300W	300W	300W
	VOLTAGE (C.V)	0 ~ 30V	0 ~ 50V	0 ~ 60V	0 ~ 100V	0 ~ 150V	0~300V
	CURRENT (C.C)	0 ~ 10A	0 ~ 5A	0 ~ 5A	0 ~ 3A	0 ~ 2A	0~1A
Programming Accuracy (At 25°C ±5°C)	VOLTAGE	0.04% + 6mV	0.04% + 30mV	0.04% + 30mV	0.06% + 50mV	0.06% + 80mV	0.1% + 150mV
	CURRENT	0.1% + 10mA	0.1% + 5mA	0.1% + 5mA	0.1% + 4mA	0.1% + 3mA	0.1% + 3mA
RIPPLE & NOISE (from 20Hz to 20MHz)	VOLTAGE(rms/p-p)	0.01% + 3mV/6mV	0.01% + 6mV/12mV	0.01% + 6mV/12mV	0.01% + 15mV/50mV	0.01% + 15mV/50mV	0.01% + 30mV/90mV
	CURRENT	0.01% + 20mA	0.01% + 10mA	0.01% + 10mA	0.01% + 5mA	0.01% + 5mA	0.01% + 6mA
Readback Accuracy (At 25°C ±5°C)	VOLTAGE	0.04% + 6mV	0.04% + 30mV	0.04% + 30mV	0.06% + 80mV	0.06% + 80mV	0.1% + 150mV
	CURRENT	0.1% + 10mA	0.1% + 5mA	0.1% + 5mA	0.1%+3mA	0.1%+3mA	0.1%+3mA
LOAD REGULATION	VOLTAGE	3mV	10mV	10mV	20mV	20mV	30mV
	CURRENT	10mA	5mA	5mA	3mA	3mA	3mA
LINE REGULATION	VOLTAGE	3mV	10mV	10mV	15mV	20mV	30mV
	CURRENT	2mA	2mA	2mA	2mA	2mA	2mA
CONTROL & DISPLAY RESOLUTION	VOLTAGE	1mV	10mV	10mV	10mV	10mV	10mV
	CURRENT	1mA	1mA	1mA	0.1mA	0.1mA	0.1mA
WEIGHT (APPROX)		21 Kg	20 Kg	21 Kg	23 Kg	22 Kg	20 Kg
DIMENSION (W*H*D mm)	Half Rack Type	W:240 x H:177 x D:360 mm					
	Rack Type	W:432 x H:133 x D:360 mm (Standard 19" 3U 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%]					
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)