

PROGRAMMABLE DC POWER SUPPLY

PTDP - 3KW SERIES SPECIFICATIONS



■ 19" SUB RACK CASE (13U)

■ 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

| * SPECIFICATION | MODEL | PTDP-30100 | PTDP-6050 | PTDP-10030 | PTDP-15020 | PTDP-30010 | PTDP-5005 |
|--|------------------|---|--------------|--------------|--------------|---------------|--------------|
| | OUTPUT | 30V 100A | 60V 50A | 100V 30A | 150V 20A | 300V 10A | 500V 5A |
| DC OUTPUT | WATTAGE | 3,000W | 3,000W | 3,000W | 3,000W | 3,000W | 2,500W |
| | VOLTAGE (C.V) | 0 ~ 30V | 0~60V | 0 ~ 100V | 0~150V | 0~300V | 0~500V |
| | CURRENT (C.C) | 0 ~ 100A | 0~50A | 0 ~ 30A | 0~20A | 0~10A | 0~5A |
| Programming Accuracy (At 25°C ±5°C) | VOLTAGE | 0.04% + 14mV | 0.04% + 30mV | 0.04% + 60mV | 0.06% + 90mV | 0.06% + 180mV | 0.1% + 300mV |
| | CURRENT | 0.1% + 100mA | 0.1% + 50mA | 0.1% + 20mA | 0.1% + 20mA | 0.1% + 20mA | 0.1% + 6mA |
| RIPPLE & NOISE (from 20Hz to 20MHz) | VOLTAGE(rms/p-p) | 7mV/14mV | 6mV/12mV | 5mV/20mV | 15mV/30mV | 15mV/30mV | 50mV/150mV |
| | CURRENT | 200mA | 100mA | 50mA | 40mA | 40mA | 20mA |
| Readback Accuracy (At 25°C ±5°C) | VOLTAGE | 0.04% + 14mV | 0.04% + 30mV | 0.04% + 60mV | 0.06% + 90mV | 0.06% + 180mV | 0.1% + 300mV |
| | CURRENT | 0.1%+100mA | 0.1%+50mA | 0.1% + 10mA | 0.1%+20mA | 0.1%+20mA | 0.1%+6mA |
| LOAD REGULATION | VOLTAGE | 11mV | 10mV | 10mV | 20mV | 20mV | 100mV |
| | CURRENT | 100mA | 50mA | 10mA | 20mA | 20mA | 6mA |
| LINE REGULATION | VOLTAGE | 11mV | 10mV | 20mV | 20mV | 20mV | 100mV |
| | CURRENT | 10mA | 5mA | 2mA | 2mA | 2mA | 4mA |
| CONTROL & DISPLAY RESOLUTION | VOLTAGE | 1mV | 10mV | 10mV | 10mV | 10mV | 100mV |
| | CURRENT | 10mA | 10mA | 1mA | 1mA | 1mA | 1mA |
| WEIGHT (APPROX) | | 95 Kg | 94 Kg | 93 Kg | 92 Kg | 91 Kg | 90Kg |
| DIMENSION (W*H*D mm) | Bench Type | W:480 x H:720 x D:680 mm (W:Width x H:Height x D:Depth) | | | | | |
| | Rack Type | W:600 x H:800 x D:650 mm (Standard 19" 13U Rack Mount 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 [IEEE-488] (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