

# Switching Mode DC Power Supply

HEAVY DUTY, HIGH POWER



## TP-D SERIES



## FEATURES

- Max. output voltage 3000V, Max. output current 3000A
- Applying IGBT module and 19-inch standard size
- 4 digits LED display for voltage and current
- Constant voltage and constant current operations
- Auto CV/CC switch
- Output ON/OFF control
- Preset function, setting of voltage and current with output open circuit
- Over voltage, over current, over temperature and over load protections
- Optional function
  - Communication: RS-232 or RS-485 interface
  - Remote control: 0-5V, 0-10V or 4-20mA signal to control output voltage and current
  - Remote Sensing: to compensate the voltage drop
  - Remote ON/OFF control: using a potentiometer to control the output
  - Timer Switch: to turn on or off the output as per preset time
  - Square Waveform Output: to output user-defined square waveform according to preset time and cycles
  - Reverse polarity protection: to protect power supply from damage by reverse current from EUT
- Customized specifications and functions acceptable

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### SPECIFICATIONS

Output capacity	At request
Working mode	IGBT
Constant Voltage Operation	
Output voltage	DC 0~100% full range adjustable
Line regulation	≤0.2%+2 digits
Load regulation	≤0.3%+2 digits
Ripple & Noise	≤0.3%+10mVrms
Constant Current Operation	
Output Current	DC 0~100% full range adjustable
Line regulation	≤0.2%+2 digits
Load regulation	≤0.3%+2 digits
Ripple & Noise	≤0.5%+10mArms
Display	
Voltmeter	4 digits LED display
Ammeter	4 digits LED display
Voltage resolution	0.000V-9.999V; 0.00V-99.99V; 0.0V-999.9V; 0V-9999V
Current resolution	0.000A-9.999A; 0.00A-99.99A; 0.0A-999.9A; 0A-9999A
Accuracy	±(1% FS + 1 digit)
Protection	
Over Voltage Protection (O.V.P.)	Built-in OVP protection with limit of 105% rated voltage. The output will be shut down when OVP is activated.
Over Current Protection (O.C.P.)	Over load, short circuit and output current limit
Over Temperature Protection (O.T.P.)	Built-in OTP protection with heatsink temperature limit of 85±5%. The output will be shut down when OTP is activated.
General	
Cooling method	Cooling fan
Operating environment	0°C~40°C, 10%~80%RH
Storage environment	-20°C~70°C, 10%~90%RH
Power source	<10KW: single phase AC220V±10% ≥10KW: three phase AC380V±10%
Input module	Power socket or terminal block

### SELECTION GUIDE

Model	Rated output		Power (kW)	Dimension (WxHxD, mm)	Weight (kg)
TP30-1HD	0~30V	0~100A	3	425x88x402	14
TP30-2HD	0~30V	0~200A	6	425x132x502	23
TP30-3HD	0~30V	0~300A	9	425x300x610	48
TP30-4HD	0~30V	0~400A	12	425x300x610	80
TP30-5HD	0~30V	0~500A	15	425x554x610	100
TP30-10HD	0~30V	0~1000A	30	505x804x688	150
TP1H-60D	0~100V	0~60A	6	425x132x502	22
TP1H-1HD	0~100V	0~100A	10	425x300x610	50
TP1H-150D	0~100V	0~150A	15	425x554x610	50
TP10H-1D	0~1000V	0~1A	1	425x88x402	12
TP10H-5D	0~1000V	0~5A	5	482x132x502	23
TP10H-10D	0~1000V	0~10A	10	425x300x610	50
TP10H-20D	0~1000V	0~20A	20	425x554x610	100

Models are listed for reference only. Customized specifications are welcome.