



- 19-inch standard size
- 4 digits LCD display for voltage and current
- Constant voltage and constant current operations, auto CV/CC switch
- Front panel operation: preset voltage and current, output ON/OFF
- Multiple protections: OVP, OCP, OTP and OLP
- Transient response time 5ms
- Communication: RS-232 or RS-485 interface

TEKLAB Programmable DC power supply with high efficiency, high accuracy and high stability. High gain amplifier circuit design makes this series with fast response Improvement on circuits. Active air duct design and optimized cooling channels effectively reduce temperature rise. Over Voltage Protection, Over Current Protection as well as Over Temperature Protection keeps this series and their load safe from unexpected conditions.

OPTIONAL FUNCTION

- Remote control: 0-5V, 0-10V or 4-20mA signal to control output voltage and current
- Remote Sensing: compensate the voltage drop
- Remote ON/OFF control: using a relay to control the output
- Timer Switch: turn on or off the output as per preset time
- Square Waveform Output: output square waveform according to preset time and cycles
- Reverse polarity protection: to protect power supply from damage by reverse current from EUT
- PV curve output for solar panel tests
- LAN interface
- System Bus interface
- Customized specifications and functions acceptable

**CUSTOMISED OUTPUT RANGES ARE AVAILABLE AS PER REQUEST.
FIND THE STANDARD MODELS AND SPECIFICATIONS BELOW**

TECHNICAL SPECIFICATIONS & SELECTION GUIDE

1KW-3KW

SELECTION GUIDE	TL3060-PPS	TL30100-PPS	TL6030-PPS	TL6050-PPS	TL10030-PPS	TL15020-PPS
	0-30V /0-60A	0-30V /0-100A	0-60V /0-30A	0-60V/0-50A	0-100V/0-30A	0-150V/0-20A
Custom Capability			Special Voltage and Current ratings available on request			
Line regulation	Voltage	≤0.1%FS rms				
	Current	≤0.1%FS rms				
Load regulation	Voltage	≤0.1%FS rms				
	Current	≤0.1%FS rms				
Ripple & Noise (20Hz~20MHz)	Voltage	≤0.3%FS+10mVrms				
	Current	≤0.3%FS+10mArms				
Time drift	Voltage	≤0.5%FS rms				
	Current	≤1%FS rms				
Temperature drift	Voltage	≤0.1%FS rms/□				
	Current	≤0.3%FS rms/□				
Setting accuracy	Voltage	≤0.1% FS +20mV (≤100V)		≤0.1% FS +100mV (300V)	≤0.1% FS +300mV (≥600V)	
	Current	≤0.3% FS +10mA				
Setting resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Read back accuracy	Voltage	≤0.1% FS +20mV (≤100V)		≤0.1% FS +100mV (300V)	≤0.1% FS +300mV (≥600V)	
	Current	≤0.3% FS +10mA				
Read back resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Transient response time			≤5ms (10% ~ 90% load change)			
Protection			OVP, OCP, OTP and short circuit protection			
OVP setting range			0.1V to 110% of rated voltage			
OCP setting range			0.1A to 110% of rated voltage			
Cooling method			Air cool			
Operating environment			0□~40□, 10%~80%RH			
Storage environment			-20□~70□, 10%~90%RH			
Input voltage			3φ4W, 415V ±10% 50Hz/60Hz			
Input module			1φ2W, 230V ±10% 50Hz/60Hz (On Customer Req.)			
Input module			Power socket or terminal block			
Dimension & Weight			W×H×D 430x133x500 mm. (Approx.)		W×H×D 430x180x500 mm. (Approx.)	

**All appearances and specifications are subject to change without prior notice.*

3KW-6KW

SELECTION GUIDE	TL30150-PPS	TL30200-PPS	TL40100-PPS	TL6060-PPS	TL60100-PPS	TL10060-PPS
	0-30V / 0-150A	0-30V / 0-200A	0-40V / 0-100A	0-60V/0-60A	0-60V/0-100A	0-100V/0-60A
Custom Capability			Special Voltage and Current ratings available on request			
Line regulation	Voltage	≤0.1%FS rms				
	Current	≤0.1%FS rms				
Load regulation	Voltage	≤0.1%FS rms				
	Current	≤0.1%FS rms				
Ripple & Noise (20Hz~20MHz)	Voltage	≤0.3%FS+10mVrms				
	Current	≤0.3%FS+10mArms				
Time drift	Voltage	≤0.5%FS rms				
	Current	≤1%FS rms				
Temperature drift	Voltage	≤0.1%FS rms/□				
	Current	≤0.3%FS rms/□				
Setting accuracy	Voltage	≤0.1% FS +20mV (≤100V)		≤0.1% FS +100mV (300V)		≤0.1% FS +300mV (≥600V)
	Current	≤0.3% FS +10mA				
Setting resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Read back accuracy	Voltage	≤0.1% FS +20mV (≤100V)		≤0.1% FS +100mV (300V)		≤0.1% FS +300mV (≥600V)
	Current	≤0.3% FS +10mA				
Read back resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Transient response time			≤5ms (10% ~ 90% load change)			
Protection			OVP, OCP, OTP and short circuit protection			
OVP setting range			0.1V to 110% of rated voltage			
OCP setting range			0.1A to 110% of rated voltage			
Cooling method			Air cool			
Operating environment			0□~40□, 10%~80%RH			
Storage environment			-20□~70□, 10%~90%RH			
Input voltage			3φ4W, 415V ±10% 50Hz/60Hz 1φ2W, 230V ±10% 50Hz/60Hz (On Customer Req.)			
Input module			Power socket or terminal block			
Dimension & Weight			W×H×D 430x133x500 mm. (Approx.)		W×H×D 430x180x500 mm. (Approx.)	

**All appearances and specifications are subject to change without prior notice.*

8KW-9KW

SELECTION GUIDE	TL20400-PPS 0-20V / 0-400A	TL30300-PPS 0-30V / 0-300A	TL40200-PPS 0-40V / 0-200A	TL60150-PPS 0-60V/0-150A	TL30030-PPS 0-300V/0-30A	TL10008-PPS 0-1000V/0-8A
Custom Capability			Special Voltage and Current ratings available on request			
Line regulation	Voltage	≤0.1%FS rms				
	Current	≤0.1%FS rms				
Load regulation	Voltage	≤0.1%FS rms				
	Current	≤0.1%FS rms				
Ripple & Noise (20Hz~20MHz)	Voltage	≤0.3%FS+10mVrms				
	Current	≤0.3%FS+10mArms				
Time drift	Voltage	≤0.5%FS rms				
	Current	≤1%FS rms				
Temperature drift	Voltage	≤0.1%FS rms/°C				
	Current	≤0.3%FS rms/°C				
Setting accuracy	Voltage	≤0.1% FS +20mV (≤100V)		≤0.1% FS +100mV (300V)		≤0.1% FS +300mV (≥600V)
	Current	≤0.3% FS +10mA				
Setting resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Read back accuracy	Voltage	≤0.1% FS +20mV (≤100V)		≤0.1% FS +100mV (300V)		≤0.1% FS +300mV (≥600V)
	Current	≤0.3% FS +10mA				
Read back resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Transient response time			≤5ms (10% ~ 90% load change)			
Protection			OVP, OCP, OTP and short circuit protection			
OVP setting range			0.1V to 110% of rated voltage			
OCP setting range			0.1A to 110% of rated voltage			
Cooling method			Air cool			
Operating environment			0°C~40°C, 10%~80%RH			
Storage environment			-20°C~70°C, 10%~90%RH			
Input voltage			3φ4W, 415V ±10% 50Hz/60Hz			
Input module			Power socket or terminal block			
Dimension & Weight			W×H×D 482x133x500 mm. (Approx.)			

SELECTION GUIDE	TL20600-PPS	TL30400-PPS	TL40300-PPS	TL60200-PPS	TL30040-PPS	TL100012-PPS
	0-20V / 0-600A	0-30V / 0-400A	0-40V / 0-300A	0-60V/0-200A	0-300V/0-40A	0-1000V/0-12A
Custom Capability			Special Voltage and Current ratings available on request			
Line regulation	Voltage	≤0.1%FS rms				
	Current	≤0.1%FS rms				
Load regulation	Voltage	≤0.1%FS rms				
	Current	≤0.1%FS rms				
Ripple & Noise (20Hz~20MHz)	Voltage	≤0.3%FS+10mVrms				
	Current	≤0.3%FS+10mArms				
Time drift	Voltage	≤0.5%FS rms				
	Current	≤1%FS rms				
Temperature drift	Voltage	≤0.1%FS rms/°C				
	Current	≤0.3%FS rms/°C				
Setting accuracy	Voltage	≤0.1% FS +20mV (≤100V)		≤0.1% FS +100mV (300V)		≤0.1% FS +300mV (≥600V)
	Current	≤0.3% FS +10mA				
Setting resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Read back accuracy	Voltage	≤0.1% FS +20mV (≤100V)		≤0.1% FS +100mV (300V)		≤0.1% FS +300mV (≥600V)
	Current	≤0.3% FS +10mA				
Read back resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Transient response time			≤5ms (10% ~ 90% load change)			
Protection			OVP, OCP, OTP and short circuit protection			
OVP setting range			0.1V to 110% of rated voltage			
OCP setting range			0.1A to 110% of rated voltage			
Cooling method			Air cool			
Operating environment			0°C~40°C, 10%~80%RH			
Storage environment			-20°C~70°C, 10%~90%RH			
Input voltage			3φ4W, 415V ±10% 50Hz/60Hz			
Input module			Power socket or terminal block			
Dimension & Weight			W×H×D 482x133x500 mm. (Approx.)			

OUTPUT MODEL		0-30V DC – 0-40A	0-40V DC-0-60A
		TL3040-PPS	TL4060-PPS
Custom Capability		Special Voltage and Current ratings available on request	
Line regulation	Voltage	≤0.1%FS rms	
	Current	≤0.1%FS rms	
Load regulation	Voltage	≤0.1%FS rms	
	Current	≤0.1%FS rms	
Ripple & Noise (20Hz~20MHz)	Voltage	≤0.3%FS+10mVrms	
	Current	≤0.3%FS+10mArms	
Time drift	Voltage	≤0.5%FS rms	
	Current	≤1%FS rms	
Temperature drift	Voltage	≤0.1%FS rms/°C	
	Current	≤0.3%FS rms/°C	
Setting accuracy	Voltage	≤0.1% FS +20mV (≤100V)	≤0.1% FS +100mV (300V) ≤0.1% FS +300mV (≥600V)
	Current	≤0.3% FS +10mA	
Setting resolution	Voltage	0.01V / 0.1V / 1V	
	Current	0.001A / 0.01A / 0.1A / 1A	
Read back accuracy	Voltage	≤0.1% FS +20mV (≤100V)	≤0.1% FS +100mV (300V) ≤0.1% FS +300mV (≥600V)
	Current	≤0.3% FS +10mA	
Read back resolution	Voltage	0.01V / 0.1V / 1V	
	Current	0.001A / 0.01A / 0.1A / 1A	
Transient response time		≤5ms (10% ~ 90% load change)	
Protection		OVP, OCP, OTP and short circuit protection	
OVP setting range		0.1V to 110% of rated voltage	
OCP setting range		0.1A to 110% of rated voltage	
Cooling method		Air cool	
Operating environment		0°C~40°C, 10%~80%RH	
Storage environment		-20°C~70°C, 10%~90%RH	
Input voltage		1φ 2W, 230V ±10% 50Hz	
Input module		Power socket or terminal block	
Dimension & Weight		W×H×D 430x90x470 mm. (Approx.)	

SELECTION GUIDE	TL202250-PPS	TL302000-PPS	TL401500-PPS	TL601000-PPS	TL300200-PPS	TL100060-PPS
	0-20V / 0-2250A	0-30V / 0-2000A	0-40V / 0-1500A	0-60V/0-1000A	0-300V/0-200A	0-1000V/0-60A
Custom Capability			Special Voltage and Current ratings available on request			
Line regulation	Voltage	$\leq 0.1\%FS$ rms				
	Current	$\leq 0.1\%FS$ rms				
Load regulation	Voltage	$\leq 0.1\%FS$ rms				
	Current	$\leq 0.1\%FS$ rms				
Ripple & Noise (20Hz~20MHz)	Voltage	$\leq 0.3\%FS+10mVrms$				
	Current	$\leq 0.3\%FS+10mArms$				
Time drift	Voltage	$\leq 0.5\%FS$ rms				
	Current	$\leq 1\%FS$ rms				
Temperature drift	Voltage	$\leq 0.1\%FS$ rms/ $^{\circ}C$				
	Current	$\leq 0.3\%FS$ rms/ $^{\circ}C$				
Setting accuracy	Voltage	$\leq 0.1\% FS + 20mV (\leq 100V)$		$\leq 0.1\% FS + 100mV (300V)$		$\leq 0.1\% FS + 300mV (\geq 600V)$
	Current	$\leq 0.3\% FS + 10mA$				
Setting resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Read back accuracy	Voltage	$\leq 0.1\% FS + 20mV (\leq 100V)$		$\leq 0.1\% FS + 100mV (300V)$		$\leq 0.1\% FS + 300mV (\geq 600V)$
	Current	$\leq 0.3\% FS + 10mA$				
Read back resolution	Voltage	0.01V / 0.1V / 1V				
	Current	0.001A / 0.01A / 0.1A / 1A				
Transient response time			$\leq 5ms$ (10% ~ 90% load change)			
Protection			OVP, OCP, OTP and short circuit protection			
OVP setting range			0.1V to 110% of rated voltage			
OCP setting range			0.1A to 110% of rated voltage			
Cooling method			Air cool			
Operating environment			0 $^{\circ}C$ ~40 $^{\circ}C$, 10%~80%RH			
Storage environment			-20 $^{\circ}C$ ~60 $^{\circ}C$, 10%~90%RH			
Input			3 ϕ 4W 50Hz/60Hz			
Input module			Power socket or terminal block			
Dimension & Weight			W×H×D 600x734x732 mm. (Approx.)		W×H×D 600x734x732 mm. (Approx.)	

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