

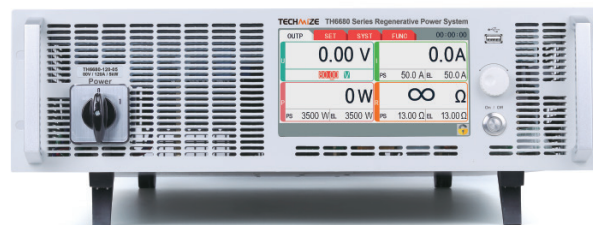
# Key Product Recommendations

## III. TH6600 Series Programmable Bidirectional DC Power Supply

### Features

- Wide range AC input voltage: 360VAC-528VAC
- Bi-directional power supply integrated with feedback loads
- Up to 92.5% energy return efficiency
- Output voltage: 0-1000V
- Maximum current output: 360A
- Three power output models: 5kW, 10kW, 15kW
- Wide range of fixed power output, can be expanded to a maximum of 480kW
- Both power and load modes have CV, CC, CR, CP functions
- Built-in function generator
- 7-inch 24-bit color TFT LCD capacitive touch screen
- High power density: 3U high, 19-inch-wide chassis, maximum power of 15kW per unit
- Power factor up to 0.99
- Coarse and fine adjustment of voltage and current values with knobs
- Timing output time can be set (0.01-9999.99S)
- Screen information can be stored in U disk
- Chinese and English operation interface
- Flexible and convenient file operating system
- Automatic upgrade of instrument operating software via USB
- Analog interface for external analog control
- RS232, USB HOST, USB Device, LAN, GPIB for data communication with PC and remote control of the instrument
- Equipped with hardware OVP, OCP, OPP, OTP protection
- Supports SCPI and MODBUS protocols

NEW



RS232	GPIB	LAN	USB HOST	USB DEVICE
standard	standard	standard	standard	standard

### TH6600 Series

Dimension(mm): 215(W)×125(H)×290(D)

Weight: 8kg

### Application

- R&D and design verification general test
- New energy: solar cells, new power vehicles, electric bicycles
- Routine testing and maintenance of production line benches
- Automation equipment integration testing
- Solar PV simulation test
- Teaching laboratories
- LED testing
- Automotive harness reliability testing

# Key Product Recommendations

## III. TH6600 Series Programmable Bidirectional DC Power Supply

### Specifications

Model		TH6680-120-05	TH6680-240-10	TH6680-360-15
Rated Output (Power Mode)	Power	0-5kW	0-10kW	0-15kW
	Voltage	0-80V	0-80V	0-80V
	Current	0-120A	0-240A	0-360A
	Internal Resistance	0.02-25Ω	0.01-13Ω	0.006-10Ω
Rated Input (Load Mode)	Power	0-5kW	0-10kW	0-15kW
	Voltage	0-80V	0-80V	0-80V
	Current	0-120A	0-240A	0-360A
	Internal Resistance	0.02-25Ω	0.01-13Ω	0.006-10Ω
Load Regulation *1	Voltage	≤0.05%FS	≤0.05%FS	≤0.05%FS
	Current	≤0.15%FS	≤0.15%FS	≤0.15%FS
	Power	≤0.75%FS	≤0.75%FS	≤0.75%FS
Power Regulation *2	Voltage	≤0.02%FS	≤0.02%FS	≤0.02%FS
	Current	≤0.05%FS	≤0.05%FS	≤0.05%FS
	Power	≤0.05%FS	≤0.05%FS	≤0.05%FS
Setting Resolution	Voltage	10mV	10mV	10mV
	Current	0.1A	0.1A	0.1A
	Power	1W	1W	1W
	Internal Resistance	0.001Ω	0.001Ω	0.001Ω
Readback Resolution	Voltage	10mV	10mV	10mV
	Current	0.1A	0.1A	0.1A
	Power	1W	1W	1W
	Internal Resistance	0.001Ω	0.001Ω	0.001Ω
Setpoint Accuracy 12Months (25°C±5°C)	Voltage	≤0.1%FS	≤0.1%FS	≤0.1%FS
	Current	≤0.2%FS	≤0.2%FS	≤0.2%FS
	Power	≤1%FS	≤1%FS	≤1%FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current		
Readback Accuracy 12Months (25°C±5°C)	Voltage	≤0.2%FS	≤0.2%FS	≤0.2%FS
	Current	≤0.2%FS	≤0.2%FS	≤0.2%FS
	Power	≤1%FS	≤1%FS	≤1%FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current		
Ripple & Noise (20Hz-2MHz)	Differential Mode Voltage	≤200mVp-p and 16mVrms	≤320mVp-p and 25mVrms	≤320mVp-p and 25mVrms
	Differential Mode Current	≤80mArms	≤160mArms	≤240mArms
Dynamic Recovery Time (50%-100%Load)		≤1.5ms		
Remote Sensor Compensation		≤0.5%FS		
Power Supply Conversion Efficiency		≤93%		
Energy Feedback Efficiency		≤93%		
Volume & Weight	Rack Mount (WxHxD) mm	430×133×703.5		
	Overall Dimension (WxHxD)mm	483×133×793.5		
	Weight (net weight)	18.5kg	25.5kg	32.5kg
Power Supply		342VAC-528VAC, 44-66Hz		

\*1 Load regulation ratio at load from 0-100% when used as a power supply.

\*2 Power regulation ratio at power supply from 0-100% when used as a load.

# Key Product Recommendations

## III. TH6600 Series Programmable Bidirectional DC Power Supply

### Specifications

Model		TH66200-70-05	TH66200-140-10	TH66200-210-15
Rated Output (Power Mode)	Power	0-5kW	0-10kW	0-15kW
	Voltage	0-200V	0-200V	0-200V
	Current	0-70A	0-140A	0-210A
	Internal Resistance	0.1-150Ω	0.05-75Ω	0.033-50Ω
Rated Input (Load Mode)	Power	0-5kW	0-10kW	0-15kW
	Voltage	0-200V	0-200V	0-200V
	Current	0-70A	0-140A	0-210A
	Internal Resistance	0.1-150Ω	0.05-75Ω	0.033-50Ω
Load Regulation*1	Voltage	≤0.05% FS	≤0.05% FS	≤0.05% FS
	Current	≤0.15% FS	≤0.15% FS	≤0.15% FS
	Power	≤0.75% FS	≤0.75% FS	≤0.75% FS
Power Regulation*2	Voltage	≤0.02% FS	≤0.02% FS	≤0.02% FS
	Current	≤0.05% FS	≤0.05% FS	≤0.05% FS
	Power	≤0.05% FS	≤0.05% FS	≤0.05% FS
Minimum resolution of setpoint	Voltage	10mV	10mV	10mV
	Current	0.01A	0.01A	0.01A
	Power	1W	1W	1W
	Internal Resistance	0.01Ω	0.01Ω	0.01Ω
Minimum resolution of readback value	Voltage	10mV	10mV	10mV
	Current	0.01A	0.01A	0.01A
	Power	1W	1W	1W
	Internal Resistance	0.0001Ω	0.0001Ω	0.0001Ω
Setpoint accuracy 12Months (25°C±5°C)	Voltage	≤0.1% FS	≤0.1% FS	≤0.1% FS
	Current	≤0.2% FS	≤0.2% FS	≤0.2% FS
	Power	≤1% FS	≤1% FS	≤1% FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current		
Readback accuracy 12Months (25°C±5°C)	Voltage	≤0.1% FS	≤0.1% FS	≤0.1% FS
	Current	≤0.2% FS	≤0.2% FS	≤0.2% FS
	Power	≤1% FS	≤1% FS	≤1% FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current		
Ripple & Noise (20Hz-2MHz)	差模电压	≤320mVp-p and 45mVrms	≤320mVp-p and 45mVrms	≤320mVp-p and 45mVrms
	差模电流	≤22mArms	≤44mArms	≤66mArms
Dynamic recovery time (50%-100% Load)		≤1.5ms		
Remote Sensor Compensation		≤5% FS		
Power Supply Conversion Efficiency		≤93%		
Power Supply Conversion Efficiency		≤93%		
Volume & Weight	Rack Mount(WxHxD)mm	430×133×703.5		
	Overall Dimension (WxHxD)mm	483×133×793.5		
	Weight (net weight)	18.5kg	25.5kg	32.5kg
Power Supply		342VAC-528VAC, 44-66Hz		

# Key Product Recommendations

## III. TH6600 Series Programmable Bidirectional DC Power Supply

### Specifications

Model		TH66500-30-05	TH66500-60-10	TH66500-90-15
Rated Output (Power Mode)	Power	0-5kW	0-10kW	0-15kW
	Voltage	0-500V	0-500V	0-200V
	Current	0-30A	0-60A	0-90A
	Internal Resistance	0.5-1000Ω	0.25-500Ω	0.16-340Ω
Rated Input (Load Mode)	Power	0-5kW	0-10kW	0-15kW
	Voltage	0-500V	0-500V	0-200V
	Current	0-30A	0-60A	0-90A
	Internal Resistance	0.5-1000Ω	0.25-500Ω	0.16-340Ω
Load Regulation*1	Voltage	≤0.05% FS	≤0.05% FS	≤0.05% FS
	Current	≤0.15% FS	≤0.15% FS	≤0.15% FS
	Power	≤0.75% FS	≤0.75% FS	≤0.75% FS
Power Regulation*2	Voltage	≤0.02% FS	≤0.02% FS	≤0.02% FS
	Current	≤0.05% FS	≤0.05% FS	≤0.05% FS
	Power	≤0.05% FS	≤0.05% FS	≤0.05% FS
Minimum resolution of setpoint	Voltage	10mV	10mV	10mV
	Current	0.01A	0.01A	0.01A
	Power	1W	1W	1W
	Internal Resistance	0.01Ω	0.01Ω	0.01Ω
Minimum resolution of readback value	Voltage	10mV	10mV	10mV
	Current	0.01A	0.01A	0.01A
	Power	1W	1W	1W
	Internal Resistance	0.0001Ω	0.0001Ω	0.0001Ω
Setpoint accuracy 12Months (25°C±5°C)	Voltage	≤0.1% FS	≤0.1% FS	≤0.1% FS
	Current	≤0.2% FS	≤0.2% FS	≤0.2% FS
	Power	≤1% FS	≤1% FS	≤1% FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current		
Readback accuracy 12Months (25°C±5°C)	Voltage	≤0.1% FS	≤0.1% FS	≤0.1% FS
	Current	≤0.2% FS	≤0.2% FS	≤0.2% FS
	Power	≤1% FS	≤1% FS	≤1% FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current		
Ripple & Noise (20Hz-2MHz)	Differential Mode Voltage	≤350mVp-p and 70mVrms	≤350mVp-p and 70mVrms	≤350mVp-p and 70mVrms
	Differential Mode Current	≤16mArms	≤32mArms	≤48mArms
Dynamic recovery time (50%-100%Load)		≤1.5ms		
Remote Sensor Compensation		≤5%		
Power Supply Conversion Efficiency		≤93%		
Power Supply Conversion Efficiency		≤93%		
Volume & Weight	Rack Mount (WxHxD)mm	430×133×703.5		
	Overall Dimension (WxHxD)mm	483×133×793.5		
	Weight (net weight)	18.5kg	25.5kg	32.5kg
Power Supply		342VAC-528VAC, 44-66Hz		

# Key Product Recommendations

## III. TH6600 Series Programmable Bidirectional DC Power Supply

### Specifications

Model		TH66750-20-05	TH66750-40-10	TH66750-60-15
Rated Output (Power Mode)	Power	0-5kW	0-10kW	0-15kW
	Voltage	0-750V	0-750V	0-750V
	Current	0-20A	0-40A	0-60A
	Internal Resistance	1.2-2200Ω	0.6-1100Ω	0.4-740Ω
Rated Input (Load Mode)	Power	0-5kW	0-10kW	0-15kW
	Voltage	0-750V	0-750V	0-750V
	Current	0-20A	0-40A	0-60A
	Internal Resistance	1.2-2200Ω	0.6-1100Ω	0.4-740Ω
Load Regulation*1	Voltage	≤0.05% FS	≤0.05% FS	≤0.05% FS
	Current	≤0.15% FS	≤0.15% FS	≤0.15% FS
	Power	≤0.75% FS	≤0.75% FS	≤0.75% FS
Power Regulation*2	Voltage	≤0.02% FS	≤0.02% FS	≤0.02% FS
	Current	≤0.05% FS	≤0.05% FS	≤0.05% FS
	Power	≤0.05% FS	≤0.05% FS	≤0.05% FS
Minimum resolution of setpoint	Voltage	10mV	10mV	10mV
	Current	0.01A	0.01A	0.01A
	Power	1W	1W	1W
	Internal Resistance	0.01Ω	0.01Ω	0.01Ω
Minimum resolution of readback value	Voltage	10mV	10mV	10mV
	Current	0.01A	0.01A	0.01A
	Power	1W	1W	1W
	Internal Resistance	0.0001Ω	0.0001Ω	0.0001Ω
Setpoint accuracy 12Months (25°C±5°C)	Voltage	≤0.1% FS	≤0.1% FS	≤0.1% FS
	Current	≤0.2% FS	≤0.2% FS	≤0.2% FS
	Power	≤1% FS	≤1% FS	≤1% FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current		
Readback accuracy 12Months (25°C±5°C)	Voltage	≤0.1% FS	≤0.1% FS	≤0.1% FS
	Current	≤0.2% FS	≤0.2% FS	≤0.2% FS
	Power	≤1% FS	≤1% FS	≤1% FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current		
Ripple & Noise (20Hz-2MHz)	Differential Mode Voltage	≤800mVp-p and 200mVrms	≤800mVp-p and 200mVrms	≤800mVp-p and 200mVrms
	Differential Mode Current	≤16mArms	≤32mArms	≤48mArms
Dynamic recovery time (50%-100%Load)		≤1.5ms		
Remote Sensor Compensation		≤5%		
Power Supply Conversion Efficiency		≤93%		
Power Supply Conversion Efficiency		≤93%		
Volume & Weight	Rack Mount(WxHxD)mm	430×133×703.5		
	Overall Dimension (WxHxD)mm	483×133×793.5		
	Weight (net weight)	18.5kg	25.5kg	32.5kg
Power Supply		342VAC-528VAC, 44-66Hz		

# Key Product Recommendations

## III. TH6600 Series Programmable Bidirectional DC Power Supply

### Specifications

Model		TH661000-40-15
Rated Output (Power Mode)	Power	0-15kW
	Voltage	0-1000V
	Current	0-40A
	Internal Resistance	0.8-1300Ω
Rated Input (Load Mode)	Power	0-15kW
	Voltage	0-1000V
	Current	0-40A
	Internal Resistance	0.8-1300Ω
Load Regulation*1	Voltage	≤0.05% FS
	Current	≤0.15% FS
	Power	≤0.75% FS
Power Regulation*2	Voltage	≤0.02% FS
	Current	≤0.05% FS
	Power	≤0.05% FS
Minimum resolution of setpoint	Voltage	10mV
	Current	0.01A
	Power	1W
	Internal Resistance	0.01Ω
Minimum resolution of readback value	Voltage	10mV
	Current	0.01A
	Power	1W
	Internal Resistance	0.0001Ω
Setpoint accuracy 12Months (25°C±5°C)	Voltage	≤0.1% FS
	Current	≤0.2% FS
	Power	≤1% FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current
Readback accuracy 12Months (25°C±5°C)	Voltage	≤0.1% FS
	Current	≤0.2% FS
	Power	≤1% FS
	Internal Resistance	≤1% of maximum resistance ±1% of maximum current
Ripple & Noise (20Hz-2MHz)	Differential Mode Voltage	≤1600mVp-p and 300mVrms
	Differential Mode Current	≤16mArms
	Dynamic recovery time (50%-100%Load)	≤1.5ms
Remote Sensor Compensation	≤5%	
Power Supply Conversion Efficiency	≤93%	
Power Supply Conversion Efficiency	≤93%	
Volume & Weight	Rack Mount (WxHxD)mm	430×133×703.5
	Overall Dimension (WxHxD)mm	483×133×793.5
	Weight (net weight)	32.5kg
Power Supply	342VAC-528VAC, 44-66Hz	