

Two Current Ranges for MCF Lite Dual

Support two current output ranges, which provides flexibility to users, and simultaneously enhances accuracy.

Tiny Current Output

Minimum current setting value is up to $50 \mu A$, which perfectly satisfies small battery production requirement.

Multi-Channel Control

One system contains up to 8 channels but all channels could work independently, which significantly reduces production cost.



Key Performance Indicator

Voltage

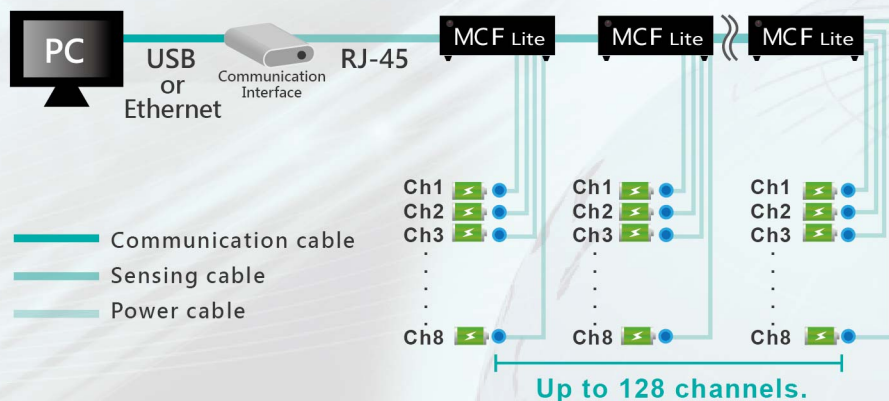
Max: 2V, 5V, 7V
Accuracy: 0.075%
Resolution: 16bit

Current

Max: $\pm 50mA$, $\pm 300mA$, $\pm 500mA$, $\pm 3A$
Multiple Ranges: 2 (Dual Model)
Accuracy: 0.06%
Resolution: 16bit



System Architecture



Options

- Data Analysis Software
- Customized Fixture
- Chamber
- 3rd party chamber integration

www.chentech.com.tw for further information



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MCF Lite *Single* Specification

Model		MCF Lite <i>Single</i> 2V/50mA	MCF Lite <i>Single</i> 2V/300mA	MCF Lite <i>Single</i> 2V/500mA	MCF Lite <i>Single</i> 2V/3A	MCF Lite <i>Single</i> 5V/50mA	MCF Lite <i>Single</i> 5V/300mA	
AC Power		200/220 VAC, 50/ 60Hz, 1-phase						
Loading Range		Charge	0V~2V			0V~5V		
		Discharge	0V~2V			0V~5V		
Output	Constant Voltage	Range	0V~2V			0V~5V		
		Resolution	0.1mV			0.1mV		
		Accuracy	±1.5mV(±0.075% F.S.)			±3.75mV(±0.075% F.S.)		
	Constant Current	Range	±50μA ~ ±50mA	±0.3mA ~ ±300mA	±0.5mA ~ ±500mA	±3mA ~ ±3A	±50μA ~ ±50mA	±0.3mA ~ ±300mA
		Resolution	1μA	10μA	10μA	0.1mA	1μA	10μA
		Accuracy	±30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)	±30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)
	Constant Power	Range	0.1mW~0.1W	0.6mW~0.6W	1mW~1W	6mW~6W	0.25mW~0.25W	1.5mW~1.5W
		Resolution	4μW	40μW	40μW	0.4mW	10μW	0.1mW
		Accuracy	±0.14mW (±0.14% F.S.)	±0.84mW (±0.14% F.S.)	±1.4mW (±0.14% F.S.)	±8.4mW (±0.14% F.S.)	±0.35mW (±0.14% F.S.)	±2.1mW (±0.14% F.S.)
Measurement	Voltage	Range	0V~2V			0V~5V		
		Resolution	0.01mV			0.01mV		
		Accuracy	±1.5mV (± 0.075% F.S.)			±3.75mV (± 0.075% F.S.)		
	Current	Range	±50μA ~ ±50mA	±0.3mA ~ ±300mA	±0.5mA ~ ±500mA	±3mA ~ ±3A	±50μA ~ ±50mA	±0.3mA ~ ±300mA
		Resolution	0.1μA	1μA	1μA	10μA	0.1μA	1μA
		Accuracy	±30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)	±30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)
	Temperature	Range	-50°C ~ 150°C					
		Resolution	0.1°C					
		Accuracy	± 1°C (-40~90°C)					
Operation Mode		CC, CC-CV, CP (Option: CR)						
Data Recording Time		1s (Option: 100ms [*])						
Communication Interface		CANBus (USB/Ethernet to PC)						
Ambient Conditions		23±2°C; 20~90 HR						

*With 100ms option, output accuracy will be 0.1%.

Model		MCF Lite <i>Single</i> 5V/500mA	MCF Lite <i>Single</i> 5V/3A	MCF Lite <i>Single</i> 7V/50mA	MCF Lite <i>Single</i> 7V/300mA	MCF Lite <i>Single</i> 7V/500mA	MCF Lite <i>Single</i> 7V/3A	
AC Power		200/220 VAC, 50/ 60Hz, 1-phase						
Loading Range		Charge	0V~5V		0V~7V			
		Discharge	0V~5V		0V~7V			
Output	Constant Voltage	Range	0V~5V		0V~7V			
		Resolution	0.1mV		0.1mV			
		Accuracy	± 3.75mV(±0.075% F.S.)		±5.25mV(±0.075% F.S.)			
	Constant Current	Range	±0.5mA ~ ±500mA	±3mA ~ ±3A	±50µA ~ ±50mA	±0.3mA ~ ±300mA	±0.5mA ~ ±500mA	±3mA ~ ±3A
		Resolution	10µA	0.1mA	1µA	10µA	10µA	0.1mA
		Accuracy	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)	±30µA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)
	Constant Power	Range	2.5mW~2.5W	15mW~15W	0.35mW~0.35W	2.1mW~2.1W	3.5mW~3.5W	21mW~21W
		Resolution	0.1mW	1mW	14µW	0.14mW	0.14mW	1.4mW
		Accuracy	±3.5mW (±0.14% F.S.)	±21mW (±0.14% F.S.)	±0.49mW (±0.14% F.S.)	±2.94mW (±0.14% F.S.)	±4.9mW (±0.14% F.S.)	±29.4mW (±0.14% F.S.)
Measurement	Voltage	Range	0V~5V		0V~7V			
		Resolution	0.01mV		0.01mV			
		Accuracy	±3.75mV (± 0.075% F.S.)		± 5.25mV(±0.075% F.S.)			
	Current	Range	±0.5mA ~ ±500mA	±3mA ~ ±3A	±50µA ~ ±50mA	±0.3mA ~ ±300mA	±0.5mA ~ ±500mA	±3mA ~ ±3A
		Resolution	1µA	10µA	0.1µA	1µA	1µA	10µA
		Accuracy	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)	±30µA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)
	Temperature	Range	-50°C ~ 150°C					
		Resolution	0.1°C					
		Accuracy	± 1°C (-40~90°C)					
Operation Mode		CC, CC-CV, CP (Option: CR)						
Data Recording Time		1s (Option: 100ms [*])						
Communication Interface		CANBus (USB/Ethernet to PC)						
Ambient Conditions		23±2°C; 20~90 HR						

*With 100ms option, output accuracy will be 0.1%.

☐ MCF Lite *Dual* Specification

Model		MCF Lite <i>Dual</i> 2V/500mA	MCF Lite <i>Dual</i> 2V/3A	MCF Lite <i>Dual</i> 5V/500mA	MCF Lite <i>Dual</i> 5V/3A	MCF Lite <i>Dual</i> 7V/500mA	MCF Lite <i>Dual</i> 7V/3A	
AC Power		200/220 VAC, 50/ 60Hz, 1-phase						
Loading Range	Charge	0V~2V		0V~5V		0V~7V		
	Discharge	0V~2V		0V~5V		0V~7V		
Output	Constant Voltage	Range	0V~2V		0V~5V		0V~7V	
		Resolution	0.1mV					
		Accuracy	±1.5mV(±0.075% F.S.)		±3.75mV(±0.075% F.S.)		±5.25mV(±0.075% F.S.)	
	Constant Current	Range 1 ^{★*}	±50.01mA ~ ±500mA	±300.1mA ~ ±3A	±50.01mA ~ ±500mA	±300.1mA ~ ±3A	±50.01mA ~ ±500mA	±300.1mA ~ ±3A
		Resolution	10μA	0.1mA	10μA	0.1mA	10μA	0.1mA
		Accuracy	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)
		Range 2 ^{★*}	±50μA ~ ±50mA	±0.3mA ~ ±300mA	±50μA ~ ±50mA	±0.3mA ~ ±300mA	±50μA ~ ±50mA	±0.3mA ~ ±300mA
		Resolution	1μA	10μA	1μA	10μA	1μA	10μA
		Accuracy	±0.30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)	±30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)	±30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)
	Constant Power	Range 1	100mW~1W	600mW~6W	250mW~2.5W	1.5W~15W	0.35W~3.5W	2.1W~21W
		Resolution	40μW	0.4mW	0.1mW	1mW	0.14mW	1.4mW
		Accuracy	±1.4mW (±0.14% F.S.)	±0.84mW (±0.14% F.S.)	±3.5mW (±0.14% F.S.)	±21mW (±0.14% F.S.)	±4.9mW (±0.14% F.S.)	±29.4mW (±0.14% F.S.)
		Range 2	0.1mW~0.1W	0.6mW~0.6W	0.25mW~0.25W	1.5mW~1.5W	0.35mW~0.35W	2.1mW~2.1W
		Resolution	4μW	40μW	10μW	0.1mW	14μW	0.14mW
	Accuracy	±0.14mW (±0.14% F.S.)	±0.84mW (±0.14% F.S.)	±0.35mW (±0.14% F.S.)	±2.1mW (±0.14% F.S.)	±0.49mW (±0.14% F.S.)	±2.94mW (±0.14% F.S.)	
Measurement	Voltage	Range	0V~2V		0V~5V		0V~7V	
		Resolution	0.01mV					
		Accuracy	±1.5mV (± 0.075% F.S.)		±3.75mV (± 0.075% F.S.)		±5.25mV (± 0.075% F.S.)	
	Current	Range 1	±50.001mA ~ ±500mA	±300.01mA ~ ±3A	±50.001mA ~ ±500mA	±300.01mA ~ ±3A	±50.001mA ~ ±500mA	±300.01mA ~ ±3A
		Resolution	1μA	10μA	1μA	10μA	1μA	10μA
		Accuracy	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)	±0.3mA (±0.06% F.S.)	±1.8mA (±0.06% F.S.)
		Range 2	±50μA ~ ±50mA	±0.3mA ~ ±300mA	±50μA ~ ±50mA	±0.3mA ~ ±300mA	±50μA ~ ±50mA	±0.3mA ~ ±300mA
		Resolution	0.1μA	1μA	0.1μA	1μA	0.1μA	1μA
		Accuracy	±30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)	±30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)	±0.30μA (±0.06% F.S.)	±0.18mA (±0.06% F.S.)
	Temperature	Range	-50°C ~ 150°C					
		Resolution	0.1°C					
		Accuracy	± 1°C (-40~90°C)					
Operation Mode		CC, CC-CV, CP (Option: CR)						
Data Recording Time		1s (Option: 100ms [★])						
Communication Interface		CANBus (USB/Ethernet to PC)						
Ambient Conditions		23±2°C; 20~90 HR						

^{*}With 100ms option, output accuracy will be 0.1%.

^{★★}The applicable current range is determined by current setting on each test step, and do not switch in the same step.

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