

Relation between the power supply and the maximum measured current

When using current probes, the maximum measured current may be limited by the power supply's maximum allowable current.

Number of probes and the maximum continuous input current range (Typical)

(In case the input current is the same for all current probes.)

1. Current probes that support YOKOGAWA probe interface (Can be used with the main units that has YOKOGAWA probe interface.)

Model	701929 (PBC050) (30A/50MHz)		701928 (PBC100) (30A/100MHz)	
	No. of probes	Max. current range	No. of probes	Max. current range
DLM3000(4ch model) / DLM2000(4ch model) / DLM6000 / DL9500 / DL9700 / SB5000 / DL6000 / DL9000	1 to 3	30A(DC+ACpeak)	1 to 3	30A(DC+ACpeak)
	4	26A(DC+ACpeak)	4	26A(DC+ACpeak)
DLM3000(2ch model) / DLM2000(2ch model)	2	30A(DC+ACpeak)	2	30A(DC+ACpeak)
DLM4000	1 to 6	30A(DC+ACpeak)	1 to 6	30A(DC+ACpeak)
	7	27A(DC+ACpeak)	7	27A(DC+ACpeak)
	8	21A(DC+ACpeak)	8	22A(DC+ACpeak)

2. Current probes that do not support YOKOGAWA probe interface (Can be used with the probe power option of DL/DLM series or the power supply 700938/701934.)

Model	Option	No. of probe power	701933 (30A/50MHz)		701932 (30A/100MHz)		701930 (150A /10MHz)		701931 (500A/2MHz)		701917 (5Arms/50MHz) 701918 (5Arms/120MHz)	
			No. of probes	Max. current range	No. of probes	Max. current range	No. of probes	Max. current range	No. of probes	Max. current range	No. of probes	Max. current range
DLM3000(4ch model) DLM2000(4ch model) DLM6000/SB5000 DL9500/DL9700	/P4	4	1 to 3	30A(DC+ACpeak)	1 to 3	30A(DC+ACpeak)	1 to 3	150A(DC+ACpeak)	1 to 2	500A(DC+ACpeak)	1 to 4	5A(DC+ACpeak)
			4	26A(DC+ACpeak)	4	26A(DC+ACpeak)	4	131A(DC+ACpeak)	3	339A(DC+ACpeak)		
DLM3000(2ch model) DLM2000(2ch model) DL6000/DL9000	/P2	2	1 to 2	30A(DC+ACpeak)	1 to 2	30A(DC+ACpeak)	1 to 2	150A(DC+ACpeak)	1 to 2	500A(DC+ACpeak)	1 to 2	5A(DC+ACpeak)
DL850E/DL850EV/DL850 0/DL850V	/P4	4	1 to 2	30A(DC+ACpeak)	1 to 2	30A(DC+ACpeak)	1 to 2	150A(DC+ACpeak)	1 to 2	500A(DC+ACpeak)	1 to 4	5A(DC+ACpeak)
			3	27A(DC+ACpeak)	3	27A(DC+ACpeak)	3	140A(DC+ACpeak)	3	390A(DC+ACpeak)		
			4	21A(DC+ACpeak)	4	22A(DC+ACpeak)	4	105A(DC+ACpeak)	4	273A(DC+ACpeak)		
DLM4000	/P8	8	1 to 6	30A(DC+ACpeak)	1 to 6	30A(DC+ACpeak)	1 to 6	150A(DC+ACpeak)	1 to 6	500A(DC+ACpeak)	1 to 8	5A(DC+ACpeak)
			7	27A(DC+ACpeak)	7	27A(DC+ACpeak)	7	140A(DC+ACpeak)	7	390A(DC+ACpeak)		
			8	21A(DC+ACpeak)	8	22A(DC+ACpeak)	8	105A(DC+ACpeak)	8	273A(DC+ACpeak)		
DL7400	Standard	4	4	30A(DC+ACpeak)	4	30A(DC+ACpeak)	4	150A(DC+ACpeak)	4	500A(DC+ACpeak)	1 to 8	5A(DC+ACpeak)
	/P4	8	8	21A(DC+ACpeak)	8	22A(DC+ACpeak)	8	105A(DC+ACpeak)	8	273A(DC+ACpeak)		
DL750/DL750P SL1400	/P4	4	1 to 2	30A(DC+ACpeak)	1 to 2	30A(DC+ACpeak)	1 to 2	150A(DC+ACpeak)	1	500A(DC+ACpeak)	1 to 3	5A(DC+ACpeak)
			3	22A(DC+ACpeak)	3	24A(DC+ACpeak)	3	114A(DC+ACpeak)	2	470A(DC+ACpeak)		
			4	16A(DC+ACpeak)	4	17A(DC+ACpeak)	4	79A(DC+ACpeak)	3	295A(DC+ACpeak)		
SL1000	/P4	4	1 to 3	30A(DC+ACpeak)	1 to 3	30A(DC+ACpeak)	1 to 3	150A(DC+ACpeak)	1 to 3	500A(DC+ACpeak)	1 to 3	5A(DC+ACpeak)
			4	27A(DC+ACpeak)	4	27A(DC+ACpeak)	4	140A(DC+ACpeak)	4	390A(DC+ACpeak)		
701934(Probe power)	---	4	4	30A(DC+ACpeak)	4	30A(DC+ACpeak)	4	150A(DC+ACpeak)	4	500A(DC+ACpeak)	1 to 4	5A(DC+ACpeak)
			4	30Arms	4	30Arms	4	150Arms	4	500Arms		
700938(Probe power)	---	2	1	30A(DC+ACpeak)	1	30A(DC+ACpeak)	1	150A(DC+ACpeak)	1	500A(DC+ACpeak)	1 to 2	5A(DC+ACpeak)
			1	30Arms	1	30Arms	1	150Arms	1	500Arms		
			2	26A(DC+ACpeak)	2	26A(DC+ACpeak)	2	131A(DC+ACpeak)	2	339A(DC+ACpeak)		

Calculation example in case the measurement current are not the same:

In case four 701929(PBC050) are used with DLM3000/DLM2000, the maximum continuous measurement range is 26A(DC+ACpeak) from the table.

However, if the maximum measurement current of one of the probe is 14A(DC+ACpeak), then up to 30A(DC+ACpeak) measurement is possible for the other three probes. (26*4-14=90, 90/3=30)

Number of probes and the maximum peak input current (Typical)

(In case the input current is the same for all current probes.)

1. Current probes that support YOKOGAWA probe interface (Can be used with the units that has YOKOGAWA probe interface.)

Model	701929 (PBC050) (30A/50MHz)		701928 (PBC100) (30A/100MHz)	
	No. of probes	Max. peak current	No. of probes	Max. peak current
DLM3000(4ch model) DLM2000(4ch model) DLM6000/SB5000 DL9500/DL9700 DL6000/DL9000	1 to 2	50A(ACpeak)	1 to 2	50A(ACpeak)
	3	36A(ACpeak)	3	38A(ACpeak)
	4	26A(ACpeak)	4	26A(ACpeak)
DLM3000(2ch model) DLM2000(2ch model)	1 to 2	50A(ACpeak)	1 to 2	50A(ACpeak)
DLM4000	1 to 3	50A(DC+ACpeak)	1 to 3	50A(DC+ACpeak)
	4	46A(DC+ACpeak)	4	46A(DC+ACpeak)
	5	38A(DC+ACpeak)	5	38A(DC+ACpeak)
	6	31A(DC+ACpeak)	6	31A(DC+ACpeak)
	7	26A(DC+ACpeak)	7	26A(DC+ACpeak)
	8	21A(DC+ACpeak)	8	21A(DC+ACpeak)

2. Current probes that do not support YOKOGAWA probe interface (Can be used with the probe power option of DL/DLM series or the power supply 700938/701934.)

Model	Option	No. of probe power	701933 (30A/50MHz)		701932(30A/100MHz)		701930 (150A /10MHz)		701931 (500A/2MHz)		701917 (5Arms/50MHz) 701918 (5Arms/120MHz)	
			No. of probes	Max. peak current	No. of probes	Max. peak current	No. of probes	Max. peak current	No. of probes	Max. peak current	No. of probes	Max. peak current
DLM3000(4ch model) DLM2000(4ch model) DLM6000/SB5000 DL9500/DL9700	/P4	4	1 to 2	50A (ACpeak)	1 to 2	50A (ACpeak)	1	300A (ACpeak)	1 to 2	700A (ACpeak)	1 to 3	7.5A(ACpeak)
			3	36A (ACpeak)	3	38A (ACpeak)	2	288A (ACpeak)	3	184A (ACpeak)	3	470A (ACpeak)
			4	26A (ACpeak)	4	26A (ACpeak)	4	131A (ACpeak)	4	339A (ACpeak)	4	6A(ACpeak)
DLM3000(2ch model) DLM2000(2ch model) DL6000/DL9000	/P2	2	1 to 2	50A (ACpeak)	1 to 2	50A (ACpeak)	1	300A (ACpeak)	1 to 2	700A (ACpeak)	1 to 2	7.5A(ACpeak)
							2	288A (ACpeak)				
DL850/DL850V/DL850E /DL850EV	/P4	4	1	50A (ACpeak)	1	50A (ACpeak)	1	300A (ACpeak)	1	700A (ACpeak)	1 to 2	7.5A(ACpeak)
			2	46A (ACpeak)	2	49A (ACpeak)	2	236A (ACpeak)	2	600A (ACpeak)		
			3	27A (ACpeak)	3	27A (ACpeak)	3	140A (ACpeak)	3	390A (ACpeak)	3	6.6A(ACpeak)
			4	21A (ACpeak)	4	22A (ACpeak)	4	105A (ACpeak)	4	273A (ACpeak)	4	5A(ACpeak)
DLM4000	/P8	8	1 to 3	50A(DC+ACpeak)	1 to 3	50A(DC+ACpeak)	1 to 3	300A(DC+ACpeak)	1 to 3	700A(DC+ACpeak)	1 to 5	7.5A(ACpeak)
			4	46A(DC+ACpeak)	4	46A(DC+ACpeak)	4	240A(DC+ACpeak)	4	600A(DC+ACpeak)		
			5	38A(DC+ACpeak)	5	38A(DC+ACpeak)	5	180A(DC+ACpeak)	5	470A(DC+ACpeak)		
			6	31A(DC+ACpeak)	6	31A(DC+ACpeak)	6	150A(DC+ACpeak)	6	390A(DC+ACpeak)	6	6.6A(ACpeak)
			7	26A(DC+ACpeak)	7	26A(DC+ACpeak)	7	130A(DC+ACpeak)	7	320A(DC+ACpeak)	7	5.7A(ACpeak)
			8	21A(DC+ACpeak)	8	21A(DC+ACpeak)	8	105A(DC+ACpeak)	8	273A(DC+ACpeak)	8	5A(ACpeak)
DL7400	Standard	4	4	46A (ACpeak)	4	49A (ACpeak)	4	236A (ACpeak)	4	600A (ACpeak)	4	5A(ACpeak)
	/P4	8	8	21A (ACpeak)	8	22A (ACpeak)	8	105A (ACpeak)	8	273A (ACpeak)	8	5A(ACpeak)
DL750/DL750P SL1400	/P4	4	1	50A (ACpeak)	1	50A (ACpeak)	1	300A (ACpeak)	1	700A (ACpeak)	1 to 2	7.5A(ACpeak)
			2	36A (ACpeak)	2	38A (ACpeak)	2	184A (ACpeak)	2	470A (ACpeak)		
			3	22A (ACpeak)	3	24A (ACpeak)	3	114A (ACpeak)	3	295A (ACpeak)	3	5.3A(ACpeak)
			4	16A (ACpeak)	4	17A (ACpeak)	4	79A (ACpeak)	4	208A (ACpeak)	4	3.5A(ACpeak)
SL1000	/P4	4	1 to 2	50A (ACpeak)	1 to 2	50A (ACpeak)	1 to 2	300A (ACpeak)	1 to 2	700A (ACpeak)	1 to 2	7.5A(ACpeak)
			3	40A (ACpeak)	3	42A (ACpeak)	3	200A (ACpeak)	3	500A (ACpeak)	3	5.3A(ACpeak)
			4	27A (ACpeak)	4	27A (ACpeak)	4	140A (ACpeak)	4	390A (ACpeak)	4	3.5A(ACpeak)
701934(Power supply)	---	4	4	50A (ACpeak)	4	50A (ACpeak)	4	300A (ACpeak)	4	700A (ACpeak)	4	7.5A(ACpeak)
700938 (Power supply)	---	2	1	50A (ACpeak)	1	50A (ACpeak)	1	288A (ACpeak)	1	700A (ACpeak)	1	7.5A(ACpeak)
			2	26A (ACpeak)	2	26A (ACpeak)	2	131A (ACpeak)	2	339A (ACpeak)	2	6A(ACpeak)

*1 Peak current for 50 and 60 Hz.

Total current of DL/DLM probe power and power supplies.

Model	Supply voltage	Total current	No. of probe power	Restrictions	
DLM3000 (2ch model) DLM2000 (2ch model)	+/-12 V	1.2A*1	2 on the front or 2 on the front and 2 on the rear	The front power supply can be used only for the probes that support YOKOGAWA probe interface. For probes that don't support YOKOGAWA probe interface, the rear/side probe power can be used. The total current is the sum of the front and rear/side power supply terminals.	
DLM3000 (4ch model) DLM2000 (4ch model)		1.2A*1	4 on the front or 4 on the front and 4 on the rear		
DLM4000		2.0A*1	8 on the front or 8 on the front and 8 on the side		
DL6000/DL9000		1.2A*1	4 on the front or 4 on the front and 2 on the rear		
DLM6000/SB5000 DL9700/DL9500		1.2A*1	4 on the front or 4 on the front and 4 on the rear		
DL850/DL850V/ DL850E/DL850EV		1.0A*2	4		
SL1000		1.3A*2	4		
DL7400		2.0A*1	4 or 8		The supply current of specific 2 terminalstogether (A-E, B-F, C-G and D-H) cannot exceed 500 mA.
DL750/DL750P SL1400		0.8A*2	4		
701934		2.5A*1	4		
700938		0.6A*1	2		

*1 Plus and minus current is counted individually.

*2 Plus and minus current is counted together.