

For DC screwdrivers

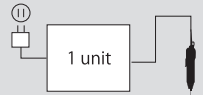


Power Supply



Exclusive power supply is required for DC screwdrivers.



- Exclusive power supply converts the electric current from AC outlet (on the primary side) to low-voltage output (HI: DC30V) or (LOW: about DC20V) to supply it to the screwdriver.
- Safe and quiet rotation.
- Please always use HIOS screwdriver in combination with HIOS power supply for safe screw tightening.
- Stable power supply with multiple inputs (AC100V to 240V).
(Not applicable to CLT-100 and MC-70L)

Power supply for brushless screwdrivers

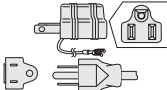
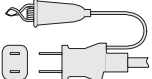
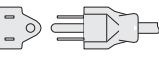
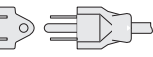
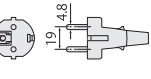
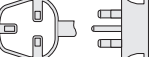
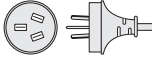
● Combination of power supply and screwdriver

Number of connectable screwdrivers			
Power supply		T-30BL	T-70BL
Screwdriver (Including OPC type)			
PG Series	PG-3000	—	●
	PG-5000	—	●
	PG-7000	—	●
BLG-BC1 Series	BLG-4000BC1	●	●
	BLG-5000BC1 Series	—	●
BLG Series	BLG-4000	●	●
	BLG-5000 Series	—	●
BL Series	BL-2000	●	●
	BL-3000	●	●
	BL-5000	—	●
	BL-7000	—	●

Model: T-30BL (for one screwdriver)		
Compatible screwdrivers BLG-BC1 Series BLG Series BL Series (Including OPC type)		
Primary input power source	AC100-240V (47-63 Hz)	
Secondary output voltage	HI(2): DC30V, LOW(1): DC20V (2-step switchable)	
External dimensions (mm)	62(W) × 134(D) × 40 (H) mm	
Weight (g)	300 g	
Accessories	Power supply cord 1.8m (1pc), Flat 2P conversion plug (1pc) (only for 100V), Mounting hardware (2pcs), Mounting screws (4pcs)	
Plug type	A	A-2 A-3 / C / BF / S
Compatible screwdrivers	BLG-BC1 Series	BLG-4000BC1
	BLG Series	BLG-4000
	BL Series	BL-2000, BL-3000

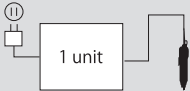
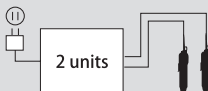
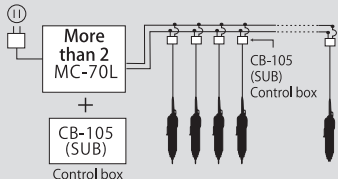





Model: T-70BL (for one screwdriver)		
Compatible screwdrivers PG Series BLG-BC1 Series BLG Series BL Series (Including OPC type)		
Primary input power source	AC100-240V (47-63 Hz)	
Secondary output voltage	HI(2): DC30V, LOW(1): DC20V (2-step switchable)	
External dimensions (mm)	88(W) × 210(D) × 52 (H) mm	
Weight (g)	685 g	
Accessories	Power supply cord 1.8m (1pc), Flat 2P conversion plug (1pc) (only for 100V), Mounting hardware (2pcs), Mounting screws (4pcs)	
Plug type	A	A-2 A-3 / C / BF / S
Compatible screwdrivers	PG Series	PG-3000, PG-5000, PG-7000
	BLG-BC1 Series	BLG-4000BC1, BLG-5000BC1 Series
	BLG Series	BLG-4000, BLG-5000 Series
	BL Series	BL-2000, BL-3000, BL-5000, BL-7000


● Plug type


Voltage	100V		120V	220-240V			
	Type A	Type A-1	Type A-2	Type A-3	Type C	Type BF	Type S
Plug type							


Power Supply for Brushed Screwdrivers


Combination of power supply with screwdriver



Number of connectable screwdrivers								
Power supply		CLT-30	CLT-60	CLT-80	CLT-100	MC-70L		
Screwdriver								
CL Series	CL-2000	●	●	—	●	●	↑ (Max. 20 units)	
	CL-3000	●	●	—	●	●		
	CL-4000	—	●	—	●	●	↑ (Max. 10 units)	
	CL-6000	—	●	—	●	●		
	CL-6500	—	●	—	●	●	↑ (Max. 10 units)	
	CL-7000	—	●	—	—	●		
SS Series	CL-9000	—	—	●	—	—	↑ (Max. 20 units)	
	SS-2000	●	●	—	●	●		
	SS-3000	●	●	—	●	●	↑ (Max. 10 units)	
	SS-4000	—	●	—	●	●		
	SS-6500	—	●	—	●	●	↑ (Max. 10 units)	
SS-7000	—	●	—	—	●			
α Series	α-4500	—	●	—	●	●	↑ (Max. 5 units)	
	α-5000	—	●	—	●	●		
	α-6500	—	●	—	—	—	●	(Max. 5 units)

Model: CLT-30 (for one screwdriver)		RoHS		CE	UL	CCC
Compatible screwdrivers						
CL Series						
SS Series						
Primary input power source		AC100-240V (47-63 Hz)				
Secondary output voltage		HI(2): DC30V, LOW(1): DC20V (2-step switchable)				
External dimensions (mm)		62(W) × 134(D) × 40 (H) mm				
Weight (g)		300 g				
Accessories		Power supply cord 1.8m (1pc), Flat 2P conversion plug (1pc) (only for 100V), Mounting hardware (2pcs), Mounting screws (4pcs)				
Plug type		A		A-2		A-3 / C / BF / S
Compatible screwdriver	CL Series	CL-2000, CL-3000				
	SS Series	SS-2000, SS-3000				

Model: CLT-60 (for one screwdriver)		RoHS	CE	UL	CCC
Compatible screwdrivers					
CL Series					
SS Series					
α Series					
Primary input power source		AC100-240V (47-63 Hz)			
Secondary output voltage		HI(2): DC30V, LOW(1): DC20V (2-step switchable)			
External dimensions (mm)		88(W) × 210(D) × 52 (H) mm			
Weight (g)		715 g			
Accessories		Power supply cord 1.8m (1pc), Flat 2P conversion plug (1pc) (only for 100V), Mounting hardware (2pcs), Mounting screws (4pcs)			
Plug type		A	A-2	A-3 / C / BF / S	
Compatible screwdriver	CL Series	CL-2000, CL-3000, CL-4000, CL-6000, CL-6500, CL-7000			
	SS Series	SS-2000, SS-3000, SS-4000, SS-6500, SS-7000			
	α Series	α-4500, α-5000, α-6500			

Model: CLT-80 (for one screwdriver)		RoHS		CE	UL	CCC
Compatible screwdrivers						
CL-9000 only						
Primary input power source		AC100V-240V (47/63 Hz)				
Secondary output voltage		HI(2) : DC30V, LOW(1):DC20V (2-step switches)				
External dimensions (mm)		114(W)×215(D)×52(H)mm				
Weight (g)		1.6kg				
Accessories		Power supply cord 1.8m (1pc), Flat 2P conversion plug (1pc) (only for 100V), Mounting hardware (2pcs), Mounting screws (4pcs)				
Plug type		A	A-2	A-3/ C/ BF/ S		
Compatible screwdriver	CL Series	CL-9000				

Model: CLT-100 (for two screwdrivers)		RoHS
Compatible screwdrivers		
CL Series SS Series α Series		
Primary input power source		AC100V (50/60Hz) AC120V (50/60Hz) AC220-240V (50/60Hz)
Secondary output voltage		HI(2): approx. DC30V, LOW(1): approx. DC20V (2-step switchable)
External dimensions (mm)		182(W) × 145(D) × 132(H) mm
Weight (g)		4kg
Accessories		Power supply cord 1.8m with ground wire (1pc)
Plug type		A-1 A-2 A-3 / C / BF / S
Compatible screwdriver	CL Series	CL-2000, CL-3000, CL-4000, CL-6000, CL-6500
	SS Series	SS-2000, SS-3000, SS-4000, SS-6500
	α Series	α-4500, α-5000

Model: MC-70L (for multiple screwdrivers)			
<div>Compatible screwdrivers</div> <div>CL Series SS Series α Series</div>			
Primary input power source	AC100V (50/60Hz)	AC120V (50/60Hz)	AC220-240V (50/60Hz)
Secondary output voltage	HI(2): about DC30V, LOW(1) :about DC20V (2-step switchable)		
External dimensions (mm)	320(W)×220(D)×153(H)mm		
Weight (kg)	12kg		
Accessories	Power supply cord 1.8m with ground wire (1pc), Trunk-line wire 20m (1 set, black & red), Branch wire 0.5m (10 sets, black & red), U-element (Scotch lock) #560B (20 pcs)		
Plug type	A-1	A-2	A-3/C/BF/S
Supported models	Up to 20 units	CL-2000, CL-3000, CL-4000, SS-2000, SS-3000, SS-4000	
	Up to 10 units	CL-6000, CL-6500, CL-7000, SS-6500, SS-7000 α-4500, α-5000	
	Up to 5 units	α-6500	

Control Box CB-105(SUB)

When you use MC-70L, you need to connect a control box (CB-105, optional) between a screwdriver and MC-70L. CB-105 is a compact control box to control the current in response to the clutch motion of a driver.



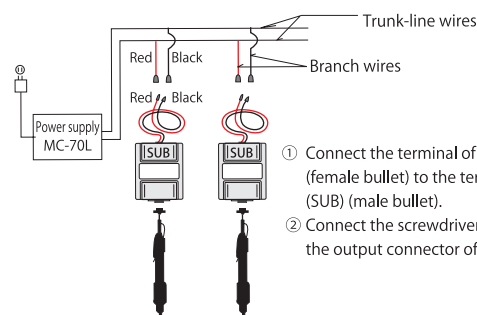
Primary input power source	DC20V/31V
Secondary output voltage	Same as the primary input power source
External dimensions (mm)	70(W) × 42(D) × 100 (H) mm
Weight (g)	240 g
Input cord length	2m with a bullet terminal (1pc, fixed to the body)
Accessories	Mounting hardware (2pcs)

《Accessories》 LEAD KIT for MC-70L Part No. MCCB-SCT

- U-element 20pieces ● Branch wire 10pieces (Black&Red)
- Trunk-line wire 20m 1pieces (Black&Red)

How to connect CB-105 (SUB)

There should be an appropriate clearance between the trunk-line wires laid along the assembly line and branch wires.



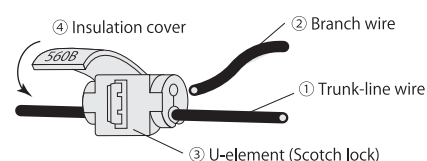
- ① Connect the terminal of the branch wire (female bullet) to the terminal of CB-105 (SUB) (male bullet).
- ② Connect the screwdriver's connector to the output connector of CB-105 (SUB).

(Note)

The trunk-line wire (included) of MC-70L should be used with the length within 20m. If you make it longer than 20m, there may be voltage reduction and cause failure of the screwdriver.

How to use U-element (Scotch lock)

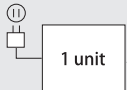
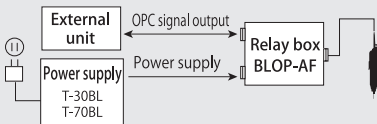



It is recommended to use U-element (included in this product) to attach a branch wire to the trunk-line wire.



- ① While push-opening the slot at the bottom of the U-element, push in the trunk-line wire into the groove.
- ② Insert the end of the branch wire through the upper hole from the right side and push it in all the way to the opposite end.
- ③ Insert the end of the branch wire through the upper hole from the right side and push it in all the way to the opposite end.
- ④ Snap on the insulation cover.


Special Power Supply • Relay Box


● Combination of power supply and screwdriver


Classification		Brushed screwdriver		Brushless screwdriver
Number of connectable screwdrivers				
Specifications		Power supply with complete signal terminal		Relay box for complete signal
Power supply		CLT-50AF	CLT-75AF	BLOP-AF
				
Screwdrivers	CL Series	CL-2000	●	—
		CL-3000	●	—
		CL-4000	●	—
		CL-6000	●	—
		CL-6500	●	—
		CL-7000	—	—
		CL-9000	—	●
	SS Series	SS-2000	●	—
		SS-3000	●	—
		SS-4000	●	—
		SS-6500	●	—
		SS-7000	—	—
	α Series	α-4500	●	—
		α-5000	●	—
		α-6500	—	—
	BLG-BC1 Series	BLG-4000BC1	—	●
		BLG-5000BC1 Series	—	●
	BLG Series	BLG-OPC specification	—	●
	BL Series	BL-OPC specification	—	●

●Power Supply with Complete Signal + Relay Box

Use these products to prevent screw tightening skipping or manufacturing line control including a screw counter.

Model: CLT-50AF (for one screwdriver)		RoHS
Output signal ● AF(torque increase)		
Compatible screwdrivers CL Series SS Series α Series 		
Primary input power source		AC100V (50/60Hz)
Secondary output voltage		HI (2): about DC30V, LOW (1): about DC20V, 2-step switchable
External dimensions (mm)		105(W) × 185(D) × 91(H)mm
Weight (kg)		About 2.7kg
Accessories		Power supply cord: 1.8m with ground wire (1pc)
Plug type		A-1
Compatible screwdrivers	CL Series	CL-2000, CL-3000, CL-4000, CL-6000, CL-6500
	SS Series	SS-2000, SS-3000, SS-4000, SS-6500
	α Series	α-4500, α-5000

Model: CLT-75AF (for one screwdriver)		RoHS
Output signal ● AF(torque increase)		
Compatible screwdrivers Exclusive for CL-9000 		
Primary input power source		AC100V(50/60Hz)
Secondary output voltage		HI (2): about DC30V
External dimensions (mm)		182(W) × 220(D) × 133(H)mm
Weight (kg)		6kg
Accessories		Power supply cord: 1.8m with ground wire (1pc)
Plug type		A-1
Compatible screwdrivers	CL Series	CL-9000

Model: BLOP-AF (relay box of complete signal)		RoHS	CE
Output signals ● FOR (forward) ● REV (reverse) ● T-UP(torque increase)			
Compatible screwdrivers BLG-BC1 Series BLG Series (OPC type) BL Series (OPC type) 			
The signals (FOR, REV and T-UP) from the screwdrivers of OPC-type screwdriver with signal output function, can be extracted with this unit to connect to an external unit such as a sequencer.			
Primary input power source		DC30V	
Secondary output voltage		Same as the primary input	
External dimensions (mm)		70(W) × 42(D) × 100(H)mm	
Weight (g)		160g	
Accessories		Screwdriver cable 1.5m (1pc) Mounting hardware (2pcs)	
Compatible screwdrivers	BLG-BC1 Series	BLG-4000-BC, BLG-5000BC1Series	
	BLG Series	BLG-4000-OPC, BLG-5000-OPC	
	BL Series	BL-2000-OPC, BL-3000-OPC, BL-5000-OPC, BL-7000-OPC	

●Plug type

Voltage	100V		120V	220-240V			
	Type A	Type A-1	Type A-2	Type A-3	Type C	Type BF	Type S
Plug type	