

Transformerless (AC)

Brush motor **Brushless motor**

Miniature screw Precision screw **Machine screw**

2.6 to 8.0 mm

See page 56 for External Dimensions

**Delvo Brushless Type**



DLV30A06P-AB DLV30A12L-AB DLV30A20P-AB DLV45A12L-AB



DLV30A06P-SP DLV30A12L-SP DLV30A20P-SP DLV45A06L-SP/DLV45A12L-SP/DLV70A06L-SP

## A Series (Transformerless type)

Model **DLV30A-AB/DLV45A-AB**  
**DLV70A-AB**

### Features

**Eco-friendly electric screwdrivers with built-in brushless motors in a transformerless profile**

- Torque range from 0.4 to 7.0 Nm
- Maximum free speeds of 650, 1200 or 2000 min<sup>-1</sup>
- Both the Lever Start and Push to Start type models are available
- Equipped with a torque adjustment ring cover
- Design conforms to the RoHS Directive and thus appeals to the environmentally conscious user
- Easily detachable Pistol Grip DLW2300 (TD00335) comes with the unit as a standard accessory (DLV45A/DLV70A)

## A Series (Transformerless, Signal output type)

Model **DLV30A-SP(AB)/DLV45A-SP(AB)**   
**DLV70A-SP(AB)**

- In addition to the above features of A series (Transformerless-type), SP Type (made-to-order) can output torque-up signal.

## Specifications

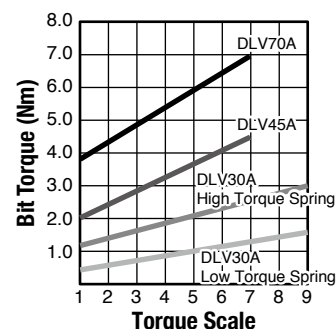
		Low Speed	Standard	High Speed	Low Speed	Standard	Low Speed
Model (Standard)	Bit	DLV30A06L-AB : K	DLV30A12L-AB : K	DLV30A20L-AB : K	DLV45A06L-AB : K	DLV45A12L-AB : K	DLV70A06L-AB : K
	Bit	DLV30A06P-AB : K	DLV30A12P-AB : K	DLV30A20P-AB : K	DLV45A06P-AB : K	DLV45A12P-AB : K	DLV70A06P-AB : K
Model (Made-to-order)*1	Bit	DLV30A06L-SP(AB) : K	DLV30A12L-SP(AB) : K	DLV30A20L-SP(AB) : K	DLV45A06L-SP(AB) : K	DLV45A12L-SP(AB) : K	DLV70A06L-SP(AB) : K
	Bit	DLV30A06P-SP(AB) : K	DLV30A12P-SP(AB) : K	DLV30A20P-SP(AB) : K	DLV45A06P-SP(AB) : K	DLV45A12P-SP(AB) : K	DLV70A06P-SP(AB) : K
Power Source		230 V AC, 50/60 Hz					
Torque Adjustment		Stepless					
Torque (Nm [lbf-in])	Low Torque Spring <sup>*2</sup>	0.4 to 1.6 [3.5 to 14.2]			2.0 to 4.5 [17.7 to 39.8]		3.8 to 7.0 [33.6 to 62.0]
	High Torque Spring <sup>*3</sup>	1.2 to 3.0 [10.6 to 26.6]					
Free Speed (min <sup>-1</sup> )		650	1200	2000	650	1200	650
Power Consumption (W)		Approx. 45					
Screw Size (mm)	Machine Screw	2.6 to 5.0			4.5 to 6.0		5.0 to 8.0
	Tapping Screw	2.5 to 4.0			4.0 to 5.0		4.5 to 6.0
Mass (g [lbs])		700 [1.54]			870 [1.92] (with Pistol Grip)		
Cord length (m)		3					
Rated Operation		ON: 0.5 seconds / OFF: 3.5 seconds					
Bit Grounding		Equipped as standard					
Standard Accessories		• Bit NK35(No.2 × 7 × 75): 1 pc. • Suspension Bail: 1 pc. • Low Torque Spring: 1 pc. • Torque Adjustment Ring Cover DLW5201			• Bit NK35(No.2 × 7 × 75): 1 pc. • Suspension Bail: 1 pc. • Pistol Grip (DLW2300) • Torque Adjustment Ring Cover DLW5202		

Bit Type		Europe 
	unit: mm	

Please contact us for 5 mm bit type.

\*1: SP Type (made-to-order) can output torque-up signal  
\*2: Standard Accessory  
\*3: Installed

## Torque Diagrams (for reference)



**Signal specifications (SP type)**

**Example wiring of output signals**

Output signal	Signal cable wiring color
Start	Green
Torque-up	White
Reverse	Yellow
80 V DC or less	Black

**Output signal specification**

Signal output	Open collector
Rated voltage	80 V DC or less
Rated current	Maximum 20 mA per output

**Output signal timing chart**

	Signal cable wiring color	Signal timing
Start switch	—	Forward Reverse
Start	Green	
Torque-up	White	Torque-up
Reverse	Yellow	

**Internal circuit**

**Optional Accessories**

<p>Torque Adjustment Ring Cover DLW5201(Non-ESD)</p> <p>Standard accessory of DLV30A</p>	<p>Torque Adjustment Ring Cover DLW5202</p> <p>Standard accessory of DLV45A/DLV70A</p>	<p>Sleeve for Vacuum Pickup DLS4000 Series</p> <p>Select according to the screw shape</p>	<p>Vacuum Pickup DLP7401-K</p> <p>For screw vacuum pickup *DLS4220/DLS4221 included</p>		
<p>Torque Reaction Arm (TD06180)</p> <p>For reducing reaction force to an operator</p>	<p>Torque Reaction Arm DRA-SW-650 (Swing type)</p> <p>For reducing reaction force to an operator Vertical tightening to the workpiece improves quality of the work</p>	<p>Torque Reaction Arm DRA-SL-650 (Slide type)</p> <p>For reducing reaction force to an operator</p>	<p>Torque Reaction Arm DRA-TS-1000 (Telescope type)</p> <p>For reducing reaction force to an operator</p>		
<p>Pistol Grip DLW2300</p> <p>Standard accessory of DLV45A/DLV70A</p> <p>For operator fatigue reduction, suitable for horizontal fastening</p>	<p>Angle Attachment (For use with lever start type only) DLW9021</p> <p>For fastening work at right angles *Use with an output torque of 2.0 Nm or less and a torque scale of 2 or more.</p>	<p>Diamond Shape Flange Coupling</p> <p>DLW9016</p>	<p>Flange Coupling</p> <p>DLW9018</p>	<p>Diamond Shape Flange Coupling</p> <p>DLW9017</p>	<p>Flange Coupling</p> <p>DLW9019</p>
		<p>For DLV30A For mounting on equipment or jigs</p>	<p>For DLV45A/DLV70A For mounting on equipment or jigs</p>		