

Model No.: EC 80 / EC 160 / EC320

Product Name: EC Power Products



★ **Features**

- Auxiliary contact male and female electric vehicle charging connector
- According to the current carrying capacity, it is divided into the following series
 - 80A series (with and without fixed handle)
 - 160A series (with and without fixed handle)
 - 320A series (with and without fixed handle)
- Rated voltage : 600V (DC)
- Streamlined design housing / acid proof, high temperature resistant PBT-PC polymer housing
- Protection level : IP23 / optional gas supply voltage button
- 2 main terminals, 4 transfer terminals, voltage keys and air supply unit
- Three hexagonal voltage coded locks are marked to distinguish liquids, solids/Colloid and gas supply
- With or without auxiliary contacts / with or without air supply / with cable Clip housing / optional fixed handle / optional movable
- The characteristics of the copper-plated silver terminal help to minimize the contact resistance at high current, and the maximum conductivity can be matched with competing products.

Terminal wire diameter conversion table

Terminal size	Corresponding cable size	Terminal size	Corresponding cable size
16 mm ²	6AWG	25mm ²	4AWG
35 mm ²	2AWG	50mm ²	1/0AWG
50 mm ²	2/0AWG	95mm ²	3/0AWG

● There are voltage indications on the code lock (24V, 36V, 48V, 72V, 80V, 96V), suitable for dry or wet batteries, avoid voltage distribution, increase safety factor

● Application : For electric vehicle industry, high current, high voltage devices and industries

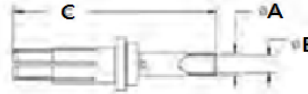
Related Technical Parameters

Model No.	EC 80	EC16	EC32
UL rated current and voltage	80amps/600vdc	160amps/600vdc	320amps/600vdc
Wire diameter range AWG (mm ²)	Main terminal#8-#2 (10/35) Auxiliary terminal#18-#14 (1.5/2.5)	Main terminal#6-#1/0 (16/50) Auxiliary terminal#12-#10 (4/6)	Main terminal#1/0-#4/0 (50/95) Auxiliary terminal#18-#10 (1.5/6)
Minimum terminal retention	About 100lbs	About 100lbs	About 100lbs
Average contact resistance	2awg (35mm ²) line 65 micro-ohms	1/0awg (50mm ²) line 55 micro-ohms	4/0awg (95mm ²) line 30 micro-ohms
Average insertion force	12lbs (53N)	12lbs (53N)	12lbs (53N)
Protection level	IP23	IP23	IP23
Acid resistance	1.38g/cm ²	1.38g/cm ²	1.10g/cm ²
Operating temperature	-25 C-105°C	-25 C-105°C	-25 C-105°C

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Connector terminal specification list (Female plug terminal size)




Model No.	Name	Item No.	A	B	C	Wire gauge	Wire diameter
EC80	Female plug main terminal	1	6.0mm	4.5mm	52.5mm	10mm ²	3.57mm
		2	8.4mm	6.0mm	52.5mm	16mm ²	4.52mm
		3	11.0mm	8.0mm	52.5mm	25mm ²	5.65mm
		4	19.8mm	9.0mm	52.5mm	35mm ²	6.68mm
EC16	Female plug main terminal	1	8.4mm	6.0mm	66.0mm	16mm ²	4.52mm
		2	11.0mm	8.0mm	66.0mm	25mm ²	5.65mm
		3	12.5mm	9.0mm	66.0mm	35mm ²	6.68mm
		4	14.5mm	11.0mm	66.0mm	50mm ²	7.98mm
EC32	Female plug main terminal	1	12.5mm	9.0mm	65.5mm	35mm ²	6.68mm
		2	14.5mm	11.0mm	65.5mm	50mm ² or 1/0	7.98mm/8.252mm
		3	17.0mm	13.0mm	65.5mm	70mm ² or 2/0	9.45mm/9.266mm
		4	19.8mm	15.0mm	70.5mm	95mm ² or 3/0	11.0mm/10.404mm
		5	19.8mm	15.6mm	70.5mm	4/0	11.684mm


Connector terminal specification list (Male plug terminal size)




Model No.	Name	Item No.	A	B	C	Wire gauge	Wire diameter
EC80	Male main terminal	1	6.0mm	4.5mm	54.3mm	10mm ²	3.57mm
		2	8.4mm	6.0mm	54.3mm	16mm ²	4.52mm
		3	11.0mm	8.0mm	54.3mm	25mm ²	5.65mm
		4	12.5mm	9.0mm	54.3mm	35mm ²	6.68mm
EC16	Male main terminal	1	8.4mm	6.0mm	74mm	16mm ²	4.52mm
		2	11.0mm	8.0mm	74mm	25mm ²	5.65mm
		3	12.5mm	9.0mm	74mm	35mm ²	6.68mm
		4	14.5mm	11.0mm	74mm	50mm ²	7.98mm
EC32	Male main terminal	1	12.5mm	9.0mm	85.5mm	35mm ²	6.68mm
		2	14.5mm	11.0mm	85.5mm	50mm ² or 1/0	7.98mm/8.252mm
		3	17.0mm	13.0mm	85.5mm	70mm ² or 2/0	9.45mm/9.266mm
		4	19.8mm	15.0mm	90.5mm	95mm ² or 3/0	11.0mm/10.404mm
		5	19.8mm	15.6mm	90.5mm	4/0	11.684mm

Connector specification list (Male Plug)

	Model No.	Specification
	DS32470	320AMP 70mm With handle and 2 Power + 4 auxiliary terminals
	DS32495	320AMP 95mm With handle and 2 Power + 4 auxiliary terminals
	DS32404	320AMP 4/0 With handle and 2 Power + 4 auxiliary terminals

	Model No.	Specification
	DS16425	160AMP 25mm With handle and 2 Power + 4 auxiliary terminals
	DS16435	160AMP 35mm With handle and 2 Power + 4 auxiliary pins
	DS16450	160AMP 50mm With handle and 2 Power + 4 auxiliary pins

	Model No.	specification
	DS80410	80AMP 10mm With handle and 2 Power + 4 auxiliary terminals
	DS80425	80AMP 25mm With handle and 2 Power + 4 auxiliary terminals
	DS80435	80AMP 35mm With handle and 2 Power + 4 auxiliary terminals



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Connector specification list (Female Plug)

	Model No.	specification
	DS32570	320AMP 70mm With 2 Power + 4 auxiliary jacks
	DS32595	320AMP 95mm With 2 Power + 4 auxiliary jacks
	DS32504	320AMP 4/0 With 2 Power + 4 auxiliary jacks

	model	specification
	DS16525	160AMP, 25mm With 2Power + 4 auxiliary jacks
	DS16535	160AMP, 35mm With 2Power + 4 auxiliary jacks
	DS16550	160AMP, 50mm With 2Power + 4 auxiliary jacks

	model	specification
	DS80510	80AMP, 10mm With 2 Power + 4 auxiliary jacks
	DS80525	80AMP, 25mm With 2 Power + 4 auxiliary jacks
	DS80535	80AMP, 35mm With 2 Power + 4 auxiliary jacks