





DEGSON websit

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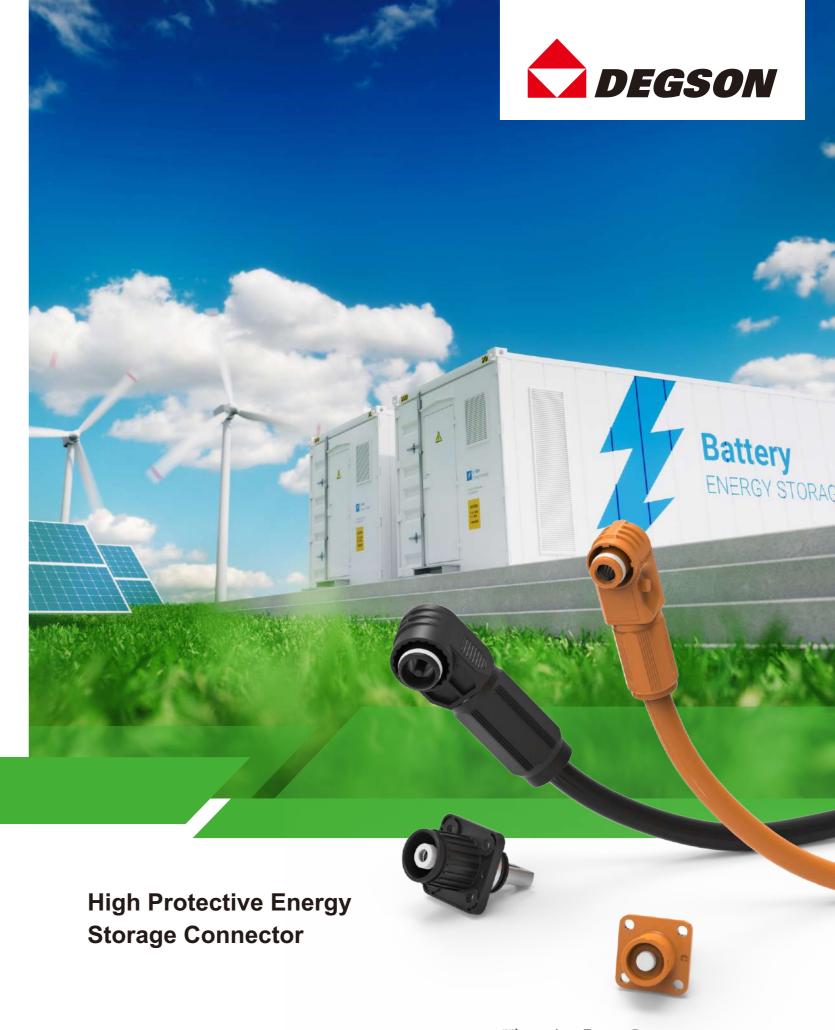
NINGBO DEGSON ELECTRICAL CO., LTD.

Add: No.1585.Xiaolin Road.Cixi.Ningbo China Tel: +86-574-63504333

P.C.: 315321 www.degson.com

The catalog is for reference purpose only and details are base on company's specifications

Te1: +86-574-63504333 E-mail: sale@degson.com







BRIEF INTRODUCTION

Founded in 1990, DEGSON is a global solution provider of electrical, electronic and industrial connectors. As a National High-tech enterprise, DEGSON owns the UL and VDE certified laboratory. The company achieved ISO9001, ISO14001, ISO80079-34,ISO/TS22163 and IATF16949 management system certifications.

DEGSON products are widely recognized in China, the USA, Germany, the UK, Italy, Spain, Turkey, Russia, Japan, South Korea, Singapore, etc. totally hundred countries and regions.DEGSON supply high quality products and provide professional services globally in the industry sectors likely industrial automation, instrument, electric power, railway, marine and offshore, new energy, elevator, lighting, security, machinery, etc. The company won the recognition from partners among Fortune 500 and industry leading enterprises.

DEGSON is engaged in supplying highly reliable and durable products to serve global customers. The company has a market-leading capability of mould processing, automatic manufacturing and advanced testing. DEGSON has the complete engineering ability to support global customers with the professional customization solution and value-added service.

Based on the business philosophy of "pragmatic innovation, responsibility, integrity, harmonious development, regulation and win-win", DEGSON continuously integrates professional technical resources, R&D innovation, product manufacturing and technology application capabilities. Relying on global sales network, DEGSON aims to supply series of multiple varieties of high-quality products and services. We provide global customers with professional and quick connected application solutions, help customers continue to create value. DEGSON is making contributions to creating a smart and interconnected world.





Degson has launched 50A~350A high protective Energy storage connectors for modular ES battery. The connectors comply with the standard UL4128 and offer safer, faster and more reliable connection for ES industry

The features of ES connector: Degson's exclusive patents

- ☐ Endure 1500V DC voltage.
- □ IP67 protection.
- Special design with color-coded and mechanical coded for + and - polarity avoding misplug and short circuit .
- ☐ The plug can rotate 360° after assembled and fulfill different cabling requirement.
- The socket is with four connection Methods: Busbar, screw,crimp,copper screw.







360°rotation

color-coded and hand-proof mechanical coded protection

Optional connection Methods:
Busbar.screw.crimp.copper screw

⊂ Market

The markets and applications for the ES connectors include but are not limited to the following:



Solar and wind energy



Charging station



Data center



Large-scale electric vehicle





ES-50A

• 50A ES connector

• Rated voltage: 1000V

• Rated current: 50A

• 1 Pole

• Cross section of wire: 6mm²





□ Technical parameters |









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Plug type: ESP-50A			
Number of position	1	Material of O-ring	Silicon
Insertion force	55N MAX	Insertion/withdrawal cycles	100
Withdrawal force	>10N	External cable diameter	4.9-6.0mm
Rated voltage	1000V	Cross section of wire	10AWG(6mm²)
Rated current	50A	Stripping length of wire	7-8mm
Contact resistance	<5mΩ	Connection method	Crimp
Degree of pollution	3	Degree of protection	IP67
Insulation resistance	>100MΩ	Ambient temperature (operation)	-40°C+125°C
Color	Orange/Black/Red	Ambient temperature (storage/transport)	-40°C+80°C
Material of contact	Copper alloy	Halogon-free	Yes
Material of housing	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Altitude	2000m
Socket type: ESS-50A			
Connection method	Busbar, Crimp, Screw, Copper screw	Layout torque	M4/0.4-0.7N.m

□ Ordering information

Product series		Туре	Rated current	Cros	ss section ire		nnection thod	Color		Keyway		Product description
		90°						ВК	Black			ESP-50A-06-BK-00
	Р	Right-angle	50A	06	6mm²			OR	Orange	00	Standard	ESP-50A-06-OR-00
		plug						RD	Red			ESP-50A-06-RD-00
								BK	Black			ESS-50A-06-B-BK-00
						В	B Busbar OR Orange	OR Orange 00	OR Orange 00 St	Standard	ESS-50A-06-B-OR-00	
								RD	Red			ESS-50A-06-B-RD-00
								BK	Black			ESS-50A-06-S-BK-00
ES	S	Socket	50A	06	6mm²	S	Screw	OR	Orange	00	Standard	ESS-50A-06-S-OR-00
								RD	Red			ESS-50A-06-S-RD-00
								BK	Black			ESS-50A-06-C-BK-00
						С	Crimp	OR	Orange	00	Standard	ESS-50A-06-C-OR-00
								RD	Red			ESS-50A-06-C-RD-00
								BK	Black			ESS-50A-06-B/S-BK-
						B/S	Copper	OR	Orange	00	Standard	ESS-50A-06-B/S-OR-
							3016W	RD	Red			ESS-50A-06-B/S-RD-

ES-70A

• 70A ES connector

• Rated voltage: 1500V

• Rated current: 70A

• 1 Pole

• Cross section of wire: 10mm²





☐ Technical parameters

Plug type: ESP-70A Number of position

Insertion force

Rated current

Color

Contact resistance Degree of pollution Insulation resistance

Material of contact

Material of housing

Connection method

Material of seal

Withdrawal force Rated voltage

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1	Material of O-ring	Silicon
55N MAX	Insertion/withdrawal cycles	100
>10N	External cable diameter	6.5-7.5mm
1000V	Cross section of wire	8AWG(10mm ²)
70A	Stripping length of wire	7-8mm
<5mΩ	Connection method	Crimp
3	Degree of protection	IP67
>100MΩ	Ambient temperature (operation)	-40°C+125°C
Orange/Black/Red	Ambient temperature (storage/transport)	-40°C+80°C
Copper alloy	Halogon-free	Yes
PA	Flammability rating according to UL 94	V0
Silicon	Altitude	2000m
Busbar, Crimp, Screw, Copper screw	Layout torque	M4/0.4-0.7N.m

☐ Ordering information

Socket type: ESS-70A

Product series		Туре	Rated current	Cro of w	ss section vire	n Connection method			Color	K	eyway	Product description
		90°						вк	Black			ESP-70A-10-BK-00
	Р	Right-angle	70A	10	10mm²	mm²		OR	Orange	00	Standard	ESP-70A-10-OR-00
		plug						RD	Red			ESP-70A-10-RD-00
								ВК	Black			ESS-70A-10-B-BK-00
						В	B Busbar	OR	Orange	00	Standard	ESS-70A-10-B-OR-00
				RD	Red			ESS-70A-10-B-RD-00				
				ВК	Black			ESS-70A-10-S-BK-00				
ES	S	Socket	70A	10	10mm²	S	Screw	OR	Orange	00	Standard	ESS-70A-10-S-OR-00
								RD	Red			ESS-70A-10-S-RD-00
								ВК	Black			ESS-70A-10-C-BK-00
						С	Crimp	OR	Orange	00	Standard	ESS-70A-10-C-OR-00
								RD	Red			ESS-70A-10-C-RD-00
								ВК	Black			ESS-70A-10-B/S-BK-0
						B/S	B/S Copper screw	OR	Orange	00	Standard	ESS-70A-10-B/S-OR-0
							SOIEW	RD	Red			ESS-70A-10-B/S-RD-0





ES-100A

• 100A ES connector • Rated voltage: 1500V

• Rated current: 100A

• 1 Pole

• Cross section of wire: 16mm²





☐ Technical parameters











Plug type: ESP-100A			
Number of position	1	Material of O-ring	Silicon
Insertion force	60N MAX	Insertion/withdrawal cycles	100
Withdrawal force	>10N	External cable diameter	7.5-9mm
Rated voltage	1500V	Cross section of wire	6AWG(16mm²)
Rated current	100A	Stripping length of wire	13-14mm
Contact resistance	<5mΩ	Connection method	Crimp
Degree of pollution	3	Degree of protection	IP67
Insulation resistance	>100MΩ	Ambient temperature (operation)	-40°C+125°C
Color	Orange/Black/Red	Ambient temperature (storage/transport)	-40°C+80°C
Material of contact	Copper alloy	Halogon-free	Yes
Material of housing	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Altitude	2000m
Socket type: ESS-100A			
Connection method	Busbar, Crimp, Screw, Copper screw	Layout torque	M4/0.4-0.7N.m

☐ Ordering information

Product series		Туре	Rated current	Cros	ss section vire		nnection thod		Color	K	eyway	Product description
		90°						ВК	Black			ESP-100A-16-BK-00
	Р	Right-angle	100A	16	16mm²			OR	Orange	00	Standard	ESP-100A-16-OR-00
		plug						RD	Red			ESP-100A-16-RD-00
								BK	Black			ESS-100A-16-B-BK-00
						В	Busbar	OR	Orange	00	Standard	ESS-100A-16-B-OR-0
								RD	Red			ESS-100A-16-B-RD-0
								BK	Black			ESS-100A-16-S-BK-0
ES	S	Socket	100A	16	16mm²	S	Screw	OR	Orange	00	00 Standard	ESS-100A-16-S-OR-0
								RD	Red			ESS-100A-16-S-RD-0
								BK	Black			ESS-100A-16-C-BK-0
						С	Crimp	OR	Orange	00	Standard	ESS-100A-16-C-OR-0
								RD	Red			ESS-100A-16-C-RD-0
								BK	Black			ESS-100A-16-B/S-BK-
						B/S	Copper	OR	Orange	00	Standard	ESS-100A-16-B/S-OR
							3016W	RD	Red			ESS-100A-16-B/S-RD

ES-120A

• 120A ES connector • Rated voltage: 1500V • Rated current: 120A

• 1 Pole

• Cross section of wire: 25mm²





☐ Technical parameters

Plug type: ESP-120A







Busbar, Crimp, Screw, Copper screw





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M4/0.4-0.7N.m

Number of position	1	Material of O-ring	Silicon
Insertion force	60N MAX	Insertion/withdrawal cycles	100
Withdrawal force	>10N	External cable diameter	9-10.5mm
Rated voltage	1500V	Cross section of wire	4AWG(25mm²)
Rated current	120A	Stripping length of wire	13-14mm
Contact resistance	<5mΩ	Connection method	Crimp
Degree of pollution	3	Degree of protection	IP67
Insulation resistance	>100MΩ	Ambient temperature (operation)	-40°C+125°C
Color	Orange/Black/Red	Ambient temperature (storage/transport)	-40°C+80°C
Material of contact	Copper alloy	Halogon-free	Yes
Material of housing	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Altitude	2000m
Socket type: ESS-120A			

Layout torque

☐ Ordering information

Connection method

Product series	Type Rated Cross section Connection method				Color	Keyway		Product description				
		90°						ВК	Black			ESP-120A-25-BK-00
	P Right-angle 120A 25 25mm²		OR	Orange	00	Standard	ESP-120A-25-OR-00					
		plug						RD	Red			ESP-120A-25-RD-00
								ВК	Black			ESS-120A-25-B-BK-00
						В	B Busbar	OR	Orange	00	Standard	ESS-120A-25-B-OR-00
							RD	Red			ESS-120A-25-B-RD-00	
				ВК	Black			ESS-120A-25-S-BK-00				
ES	S	Socket	120A	25	25mm²	S	S Screw	OR	Orange	00	Standard	ESS-120A-25-S-OR-00
								RD	Red			ESS-120A-25-S-RD-00
								ВК	Black			ESS-120A-25-C-BK-00
						С	Crimp	OR	Orange	00	Standard	ESS-120A-25-C-OR-00
								RD	Red			ESS-120A-25-C-RD-00
							B/S Copper screw	ВК	Black			ESS-120A-25-B/S-BK-0
						B/S		OR	Orange	00	Standard	ESS-120A-25-B/S-OR-0
							SCIEW	RD	Red			ESS-120A-25-B/S-RD-0





ES-150A

• 150A ES connector • Rated voltage: 1500V

• Rated current: 150A

• 1 Pole

• Cross section of wire: 35mm²



Layout torque



Silicon

11-12.5mm 2AWG(35mm²)

13-14mm Crimp IP67

-40°C+125°C -40°C+80°C

M4/0.4-0.7N.m

Yes V0 2000m

☐ Technical parameters









Plug type: ESP-150A		
Number of position	1	Material of O-ring
Insertion force	100N MAX	Insertion/withdrawal cycles
Withdrawal force	>10N	External cable diameter
Rated voltage	1500V	Cross section of wire
Rated current	150A	Stripping length of wire
Contact resistance	<5mΩ	Connection method
Degree of pollution	3	Degree of protection
Insulation resistance	>100MΩ	Ambient temperature (operation)
Color	Orange/Black/Red	Ambient temperature (storage/transpo
Material of contact	Copper alloy	Halogon-free
Material of housing	PA	Flammability rating according to UL
Material of seal	Silicon	Altitude
Socket type: ESS-150A		

Busbar, Crimp, Screw, Copper screw

☐ Ordering information

Connection method

Product series		Туре	Rated current	Cros of w	ss section vire		Connection method																				Color	Ke	eyway	Product description
		90°						BK	Black	18	180°	ESP-150A-35-BK-18																		
	Р	Right-angle	150A	35	35mm²			OR	Orange	90	90°	ESP-150A-35-OR-90																		
		plug						RD	Red	90	90°	ESP-150A-35-RD-90																		
								BK	Black	18	180°	ESS-150A-35-B-BK-18																		
						В	Busbar	OR	Orange	90	90°	ESS-150A-35-B-OR-90																		
								RD	Red	90	90°	ESS-150A-35-B-RD-90																		
						S	Screw	BK	Black	18	180°	ESS-150A-35-S-BK-18																		
ES	S	Socket	150A	35	35mm²			OR	Orange	90	90°	ESS-150A-35-S-OR-90																		
								RD	Red	90	90°	ESS-150A-35-S-RD-90																		
								BK	Black	18	180°	ESS-150A-35-C-BK-18																		
						С	Crimp	OR	Orange	90	90°	ESS-150A-35-C-OR-90																		
								RD	Red	90	90°	ESS-150A-35-C-RD-90																		
								BK	Black	18	180°	ESS-150A-35-B/S-BK-																		
						B/S Copper	OR	Orange	90	90°	ESS-150A-35-B/S-OR-																			
							screw		Red	90	90°	ESS-150A-35-B/S-RD-																		

ES-200A

• 200A ES connector • Rated voltage: 1500V • Rated current: 200A

• 1 Pole

• Cross section of wire: 50mm²



Layout torque



M4/0.4-0.7N.m

Technical parameters

Plug type: ESP-200A

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Number of position	1
Insertion force	100N MAX
Withdrawal force	>10N
Rated voltage	1500V
Rated current	200A
Contact resistance	<5mΩ
Degree of pollution	3
Insulation resistance	>100MΩ
Color	Orange/Black/Red
Material of contact	Copper alloy
Material of housing	PΔ

Material of seal	Silicon
Socket type: ESS-200A	
Connection method	Busbar,Crimp,Screw,Copper screw

Material of O-ring	Silicon
Insertion/withdrawal cycles	100
External cable diameter	12.5-14mm
Cross section of wire	1/0AWG(50mm ²)
Stripping length of wire	13-14mm
Connection method	Crimp
Degree of protection	IP67
Ambient temperature (operation)	-40°C+125°C
Ambient temperature (storage/transport)	-40°C+80°C
Halogon-free	Yes
Flammability rating according to UL 94	V0
Altitude	2000m

☐ Ordering information

Product series		Туре	Rated current	Cros of w	ss section vire		Connection method																																		Color	Keyway		Product description
		90°						вк	Black	18	180°	ESP-200A-50-BK-18																																
	Р	Right-angle	200A	50	50mm ²			OR	Orange	90	90°	ESP-200A-50-OR-90																																
		plug						RD	Red	90	90°	ESP-200A-50-RD-90																																
								вк	Black	18	180°	ESS-200A-50-B-BK-18																																
						В	В	В	В	Busbar	OR	Orange	90	90°	ESS-200A-50-B-OR-90																													
				RD	Red	90	90°	ESS-200A-50-B-RD-90																																				
			ВК	Black	18	180°	ESS-200A-50-S-BK-18																																					
ES	S	Socket	200A	50	50mm ²	2 S	S Screw	OR	Orange	90	90°	ESS-200A-50-S-OR-90																																
								RD	Red	90	90°	ESS-200A-50-S-RD-90																																
													ВК	Black	18	180°	ESS-200A-50-C-BK-18																											
						С	Crimp	OR	Orange	90	90°	ESS-200A-50-C-OR-90																																
							RD	Red	90	90°	ESS-200A-50-C-RD-90																																	
								ВК	Black	18	180°	ESS-200A-50-B/S-BK-1																																
						B/S Copper screw	OR	Orange	90	90°	ESS-200A-50-B/S-OR-9																																	
							00.0W	RD	Red	90	90°	ESS-200A-50-B/S-RD-9																																





ESS-200A-A

• 200A ES connector • Rated voltage: 1500V

• Rated current: 200A

• 1 Pole

• Cross section of wire: 50mm²





Technical parameters











Plug type: ESP-200A			
Number of position	1	Material of O-ring	Silicon
Insertion force	100N MAX	Insertion/withdrawal cycles	100
Withdrawal force	>10N	External cable diameter	12.5-14mm
Rated voltage	1500V	Cross section of wire	1/0AWG(50mm ²)
Rated current	200A	Stripping length of wire	13-14mm
Contact resistance	<5mΩ	Connection method	Crimp
Degree of pollution	3	Degree of protection	IP67
Insulation resistance	>100MΩ	Ambient temperature (operation)	-40°C+125°C
Color	Orange/Black/Red	Ambient temperature (storage/transport)	-40°C+80°C
Material of contact	Copper alloy	Halogon-free	Yes
Material of housing	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Altitude	2000m
Socket type: ESS-200A-A			
Connection method	Busbar, Crimp, Screw, Copper screw	Layout torque	M4/0.4-0.7N.m

☐ Ordering information

Product series	Туре		Rated current	Cross section of wire		Connection method		Color		Keyway		Product description
		90°						BK	Black	18	180°	ESP-200A-50-BK-18
	Р	Right-angle	200A	50	50mm²			OR	Orange	90	90°	ESP-200A-50-OR-90
		plug						RD	Red	90	90°	ESP-200A-50-RD-90
									Angle	of pos	itioning l	ceyway
								BK	Black	16	180°	ESS-200A-50-B-BK-16
						В	Busbar	OR	Orange	20	90°	ESS-200A-50-B-OR-20
							RD	Red	20	90°	ESS-200A-50-B-RD-20	
								BK	Black	16	180°	ESS-200A-50-S-BK-16
ES	S	Socket	200A	50	50mm²	S	Screw	OR	Orange	20	90°	ESS-200A-50-S-OR-20
								RD	Red	20	90°	ESS-200A-50-S-RD-20
							C Crimp	BK	Black	16	180°	ESS-200A-50-C-BK-16
						С		OR	Orange	20	90°	ESS-200A-50-C-OR-20
						RD	Red	20	90°	ESS-200A-50-C-RD-20		
								BK	Black	16	180°	ESS-200A-50-B/S-BK-1
						B/S	Copper	OR	Orange	20	90°	ESS-200A-50-B/S-OR-2
							22.011	RD	Red	20	90°	ESS-200A-50-B/S-RD-2

ES-250A

• 250A ES connector • Rated voltage: 1500V • Rated current: 250A

• 1 Pole

• Cross section of wire: 70mm²





Technical parameters

Plug type: ESP-250A

Number of position Insertion force

Withdrawal force Rated voltage

Rated current

Color

Contact resistance Degree of pollution Insulation resistance

Material of contact

Material of housing

Connection method

Material of seal

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100N MAX >10N

1500V

250A <5m Ω

>100MΩ

Copper alloy

Silicon

Orange/Black/Red

Busbar, Crimp, Screw, Copper screw





Material of O-ring	Silicon
Insertion/withdrawal cycles	100
External cable diameter	15.5-17mm
Cross section of wire	2/0AWG(70mm ²)
Stripping length of wire	19-21mm
Connection method	Crimp
Degree of protection	IP67
Ambient temperature (operation)	-40°C+125°C
Ambient temperature (storage/transport)	-40°C+80°C
Halogon-free	Yes
Flammability rating according to UL 94	V0
Altitude	4000m

M4/0.4-0.7N.m

☐ Ordering information

Socket type: ESS-250A

Product series		Туре	Rated current	Cro of w	ss section vire		Connection method		Color	Keyway		Product description
		90°			70mm²			ВК	Black			ESP-250A-70-BK-00
	Р	Right-angle	250A	70				OR	Orange	00	Standard	ESP-250A-70-OR-00
		plug						RD	Red			ESP-250A-70-RD-00
					70mm²		Busbar	ВК	Black		Standard	ESS-250A-70-B-BK-00
						В		OR	Orange	00		ESS-250A-70-B-OR-00
		Socket						RD	Red			ESS-250A-70-B-RD-00
						S	Screw	ВК	Black			ESS-250A-70-S-BK-00
ES	S		250A	70				OR	Orange	00	Standard	ESS-250A-70-S-OR-00
								RD	Red			ESS-250A-70-S-RD-00
						С	Crimp	ВК	Black			ESS-250A-70-C-BK-00
								OR	Orange	00	Standard	ESS-250A-70-C-OR-00
								RD	Red			ESS-250A-70-C-RD-00
							Copper	ВК	Black	00		ESS-250A-70-B/S-BK-00
						B/S		OR	Orange		Standard	ESS-250A-70-B/S-OR-00
								RD	Red			ESS-250A-70-B/S-RD-00

Layout torque





ES-300A

• 300A ES connector • Rated voltage: 1500V

• Rated current: 300A

• 1 Pole

• Cross section of wire: 95mm²





☐ Technical parameters :









Plug type: ESP-300A			
Number of position	1	Material of O-ring	Silicon
Insertion force	100N MAX	Insertion/withdrawal cycles	100
Withdrawal force	>10N	External cable diameter	18.0-19.0mm
Rated voltage	1500V	Cross section of wire	3/0AWG(95mm²)
Rated current	300A	Stripping length of wire	16-18mm
Contact resistance	<5mΩ	Connection method	Crimp
Degree of pollution	3	Degree of protection	IP67
Insulation resistance	>100MΩ	Ambient temperature (operation)	-40°C+125°C
Color	Orange/Black/Red	Ambient temperature (storage/transport)	-40°C+80°C
Material of contact	Copper alloy	Halogon-free	Yes
Material of housing	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Altitude	2000m
Socket type: ESS-300A			
Connection method	Busbar, Crimp, Screw, Copper screw	Layout torque	M4/0.4-0.7N.m

☐ Ordering information

Product series		Туре	Rated current	Cros of w	ss section rire		nnection thod		Color		eyway	Product description
		90°			95mm²			ВК	Black			ESP-300A-95-BK-00
	Р	Right-angle	300A	95				OR	Orange	00	Standard	ESP-300A-95-OR-00
		plug							Red			ESP-300A-95-RD-00
					95mm²	В	Busbar	ВК	Black			ESS-300A-95-B-BK-00
								OR	Orange	00	Standard	ESS-300A-95-B-OR-0
		Socket		95				RD	Red			ESS-300A-95-B-RD-0
						S	Screw	BK	Black			ESS-300A-95-S-BK-0
ES	S		300A					OR	Orange	00	Standard	ESS-300A-95-S-OR-0
								RD	Red			ESS-300A-95-S-RD-0
							Crimp	ВК	Black			ESS-300A-95-C-BK-0
						С		OR	Orange	00	Standard	ESS-300A-95-C-OR-0
								RD	Red			ESS-300A-95-B-OR-00 ESS-300A-95-B-RD-00 ESS-300A-95-S-BK-00 ESS-300A-95-S-OR-00 ESS-300A-95-S-RD-00 ESS-300A-95-C-BK-00 ESS-300A-95-C-OR-00 ESS-300A-95-C-RD-00
								ВК	Black			ESS-300A-95-B/S-BK-
						B/S	Copper	OR	Orange	00	Standard	ESS-300A-95-B/S-OR
								RD	Red			ESS-300A-95-B/S-RD-

ES-350A

• 350A ES connector • Rated voltage: 1500V • Rated current: 350A

• 1 Pole

• Cross section of wire: 120mm²





Technical parameters

Plug type: ESP-350A

Number of position Insertion force

Withdrawal force Rated voltage

Rated current Contact resistance

Color

Degree of pollution Insulation resistance

Material of contact

Material of housing

Connection method

Material of seal

oHS)	48н
OHS	SALT SPRAY







1	Material of O-ring	Silicon
100N MAX	Insertion/withdrawal cycles	100
>10N	External cable diameter	19.9-20.9mm
1500V	Cross section of wire	4/0AWG(120mm²)
350A	Stripping length of wire	16-18mm
<5mΩ	Connection method	Crimp
3	Degree of protection	IP67
>100MΩ	Ambient temperature (operation)	-40°C+125°C
Orange/Black/Red	Ambient temperature (storage/transport)	-40°C+80°C
Copper alloy	Halogon-free	Yes
PA	Flammability rating according to UL 94	V0
Silicon	Altitude	2000m
Busbar, Crimp, Screw, Copper screw	Layout torque	M4/0.4-0.7N.m

☐ Ordering information

Socket type: ESS-350A

Product series		Туре	Rated current	Cro of w	ss section vire		Connection method		Color		eyway	Product description
		90°			20 120mm²			ВК	Black			ESP-350A-120-BK-00
	Р	Right-angle	350A	120				OR	Orange	00	Standard	ESP-350A-120-OR-00
		plug						RD	Red			ESP-350A-120-RD-00
		Socket			120mm²		Busbar	ВК	Black	00	Standard	ESS-350A-120-B-BK-00
			350A	120		В		OR	Orange			ESS-350A-120-B-OR-00
								RD	Red			ESS-350A-120-B-RD-00
	S					S	Screw	ВК	Black			ESS-350A-120-S-BK-00
ES								OR	Orange	00	Standard	ESS-350A-120-S-OR-00
								RD	Red			ESS-350A-120-S-RD-00
						С	Crimp	BK	Black			ESS-350A-120-C-BK-00
								OR	Orange	00	Standard	ESS-350A-120-C-OR-00
								RD	Red			ESS-350A-120-C-RD-00
							Copper screw	BK	Black	00		ESS-350A-120-B/S-BK-0
						B/S		OR	Orange		Standard	ESS-350A-120-B/S-OR-0
								RD	Red			ESS-350A-120-B/S-RD-0





Socket Dimensions Item Screw connection Crimp connection Screw connection Busbar connection

Item	Screw co	nnection	Crimp co	nnection	Screw co	nnection	Busbar connection	
Size	- A -	В	- A -	-	A	В —	B B	
	Α	В	Α	В	Α	В	Α	В
50A/70A	16.2	41.1	1	1	1	1	1	1
100A/120A	19	53.7	19	53.5	19	45.5	19	53.7
150A/200A	22 68.1		22	61.8	22	55.1	22	68.1
250A	24.6	70	24.6	70	24.6	60	24.6	70
300A/350A	30.3	66.6	1	1	1	1	1	1

Plug Dimensions

9 2											
Item	Crimp connection										
Size											
	Α	В	С	D							
50A/70A	21.2	51	24.3	16							
100A/120A	25	68.3	30.7	19							
150A/200A	29.4	76.7	40.7	22							
250A	33.8 89.2 40.7 23.5										
300A/350A	39	101	44	29							

Layout Dimensions

		Δ ΦC		Layout	Receptacle Contact Torque		Figure	
Current	Α	ФС	D	Torque	Busbar Torque	Screw Torque	Figure	
50A/70A	24±0.1	12.9±0.2	M4 Screw	0.4-0.7N.m	M4 Screw 1.2-1.5N.m	I	2x 0 D	

Layout Dimensions

Current	A	В	ФС	D	Layout Torque	Busbar Torque	Screw Torque	Figure
100A/120A	21±0.1	21±0.1	20.3±0.1	M4 Screw	M4 bolts: 0.4-0.7N.m	M5 bolts: 2N.m max	M6 Nut: 2N.m max	← A →
150A/200A (Exclude ESS-200A-A)	21.8±0.1	21.8±0.1	18.6±0.1	M4 Screw	M4 bolts: 0.4-0.7N.m	M5 bolts: 2N.m max	M8 Nut: 8N.m max	
250A	36±0.1	36±0.1	32±0.1	M4 Screw	M4 bolts: 0.4-0.7N.m	M8 Nut: 8N.m max	M8 Nut: 8N.m max	B
300A/350A	24.5±0.1	24.5±0.1	22.5+0.2/-0	M4 Screw	M4 bolts: 0.4-0.7N.m	M6 bolts: 2N.m max	M10 Nut: 8N.m max	4xΦD

☐ Sucessful applications

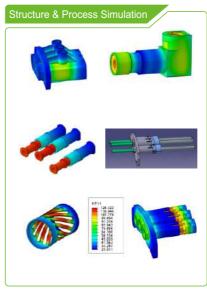
The high protective ES connectors have been approved and applied by a lot of customers after market launch. Currently 120A and 200A ES connectors were widely applied in solar station, international household energy storage and large-scale electric vehicles. We keep doing the best to offer safer, faster and more reliable connection for ES industry. Meanwhile, we are able to offer complete product soluction for ES industry. The vision of Degson is to keep developing best products for ES industry.





☐ Strong customization strength

Mechanic Simulation, Development & Verification



- Structural FEM /ANSYS LS-DYNA
- Thermal CFD / Autodesk/FloTHERM
- Molding / Stamping Analysis
- $\,\square\,\mathsf{ANSYS}$
- □ Simufact□ Moldflow
- -DYNA oTHERM
- Product Development
 - Computer Aided Design
 - Statistical Analysis
 - Monte Carlo AnalysisDesign of Experiments
 - DFMEA/ PFMEA
- NATIONAL OF THE PROPERTY OF TH
- Dimensional Measurements
- Environmental testing
- Material Characterization SEM/FIB
- CT-scanning

□ Value added service





