

# ePower Connection System



**Heavy  
Equipment &  
Hybrid / Energy  
Storage Market**

**Amphenol®**  
**Industrial**



**RADSOK®**  
**ePower**



# Amphenol<sup>®</sup> Industrial



## ePower

Amphenol Industrial now offers a connector series designed to eliminate bulky and space-consuming cable glands on motors, AC/DC inverters and converters, and other high amperage equipment. The new IP67-rated ePower 400A connector is ideal for hybrid vehicle applications.

### ePower Features

- Two or three circuit power
- Crimp, lug or bus bar termination
- IP2X on pin and socket
- Environmental IP67 rating
- Two HVIL circuits
- 1000vdc rating
- 11.1mm RADSOK® technology for 300A to 400A current capability
- Strain relief for jacketed cable incorporated into shell
- Integrated EMI shielding
- Excellent vibration resistance
- All aluminum shell
- Multiple wire size capability: from 50mm<sup>2</sup> to 95mm<sup>2</sup>

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# Amphenol's ePower Connector Series **Amphenol®** Industrial Global Operations

## Features and Benefits

- 2 and 3 pin power
- Crimp, lug or bus bar termination
- IP2X on pin and socket
- Environmental capabilities
- 2 HVIL 16 awg circuits
- 600 – 1,000 vdc rating
- 100A to 500A rating
- 8mm to 14mm RADSOK®



## Markets

- Power converters
- AC-DC inverters
- Hybrid electric vehicles
- Heavy equipment electrification
- 3 phase motors
- Starter generators

## Features and Benefits

- No mating latches
- Integrated EMI shielding
- Aluminum die cast
- Strain relief incorporated into plug shell
- Crimp or bus bar termination sockets in receptacle



# ePower – Aluminum

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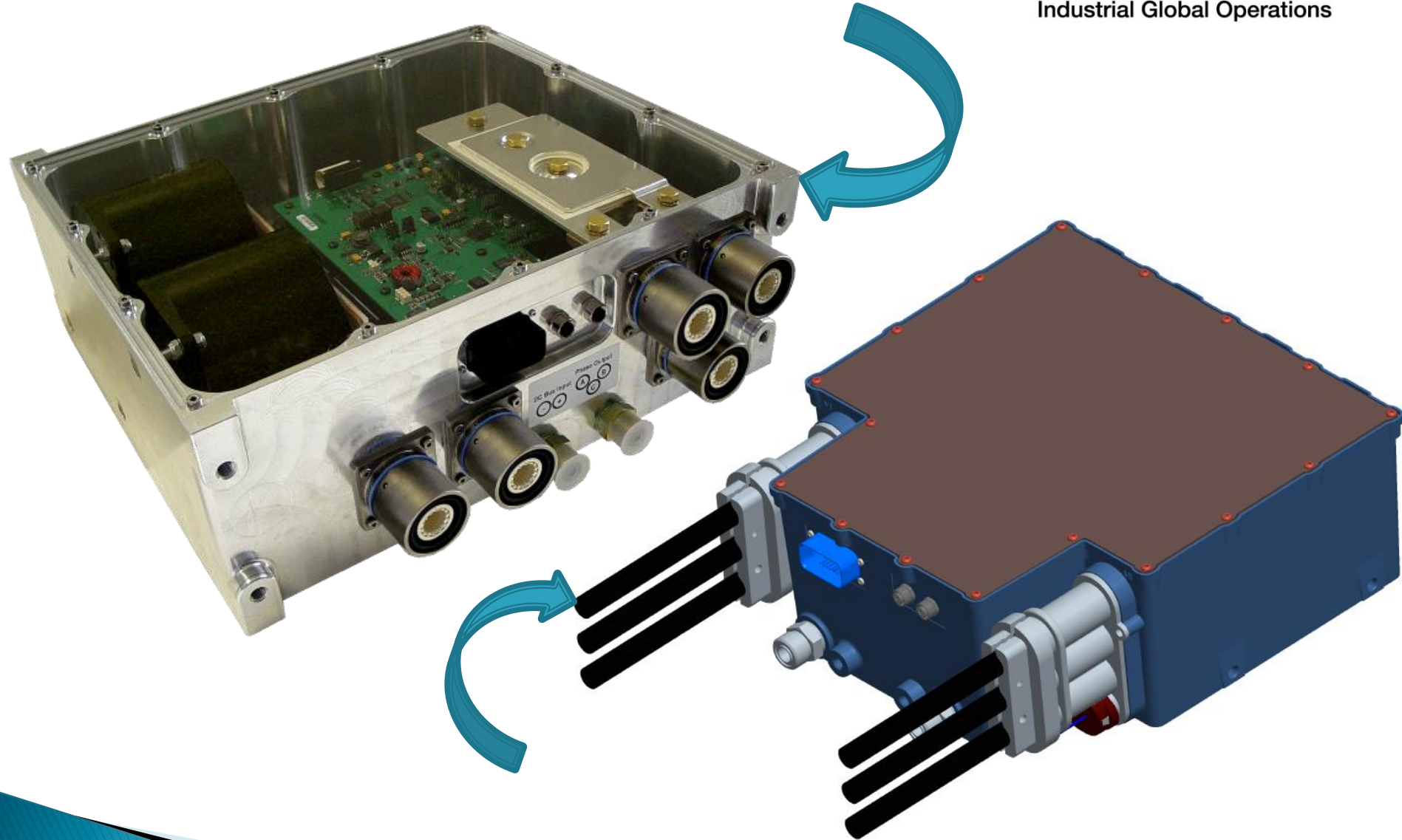


## Features:

- Two or three circuit power
- Crimp, lug or bus bar termination
- IP2X on pin and socket
- Environmental IP67 rating
- Two HVIL circuits
- 1,000vdc rating
- 5.7mm - 14mm RADSOK® technology for 200 to 500A current capability
- Strain relief for jacketed cable incorporated into shell
- Integrated EMI shielding
- Excellent vibration resistance
- All aluminum shell

# Pre ePower **Amphenol®**

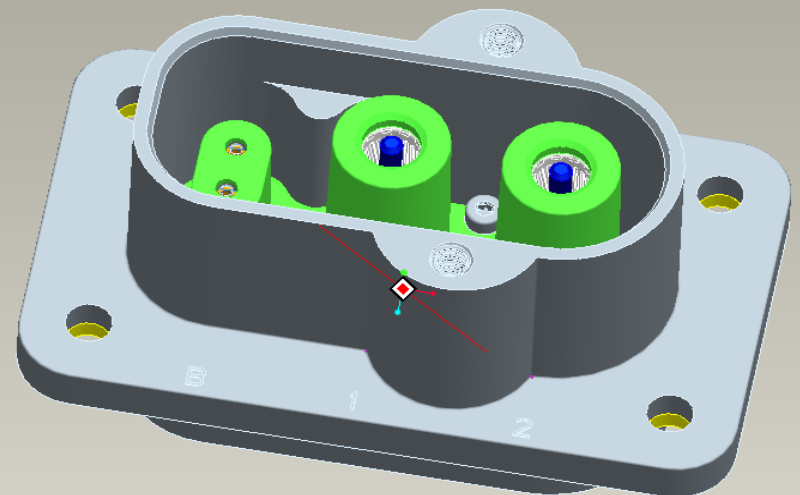
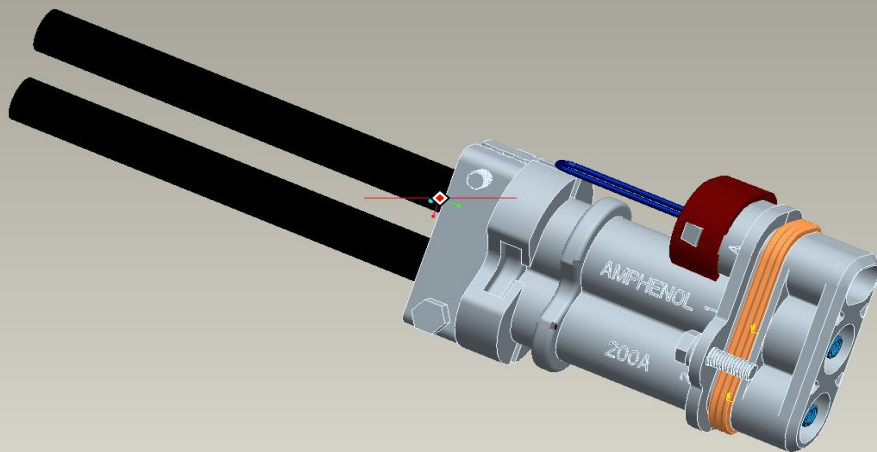
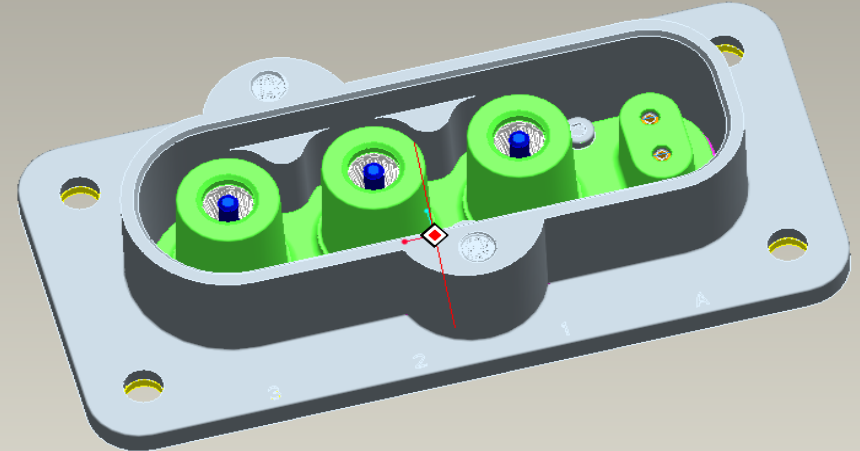
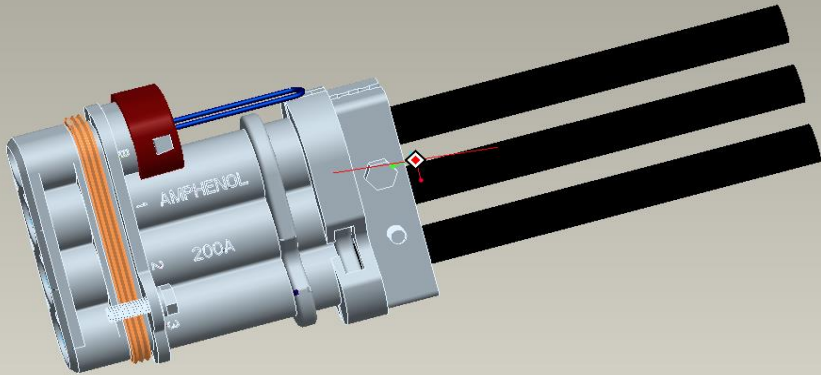
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## Post ePower

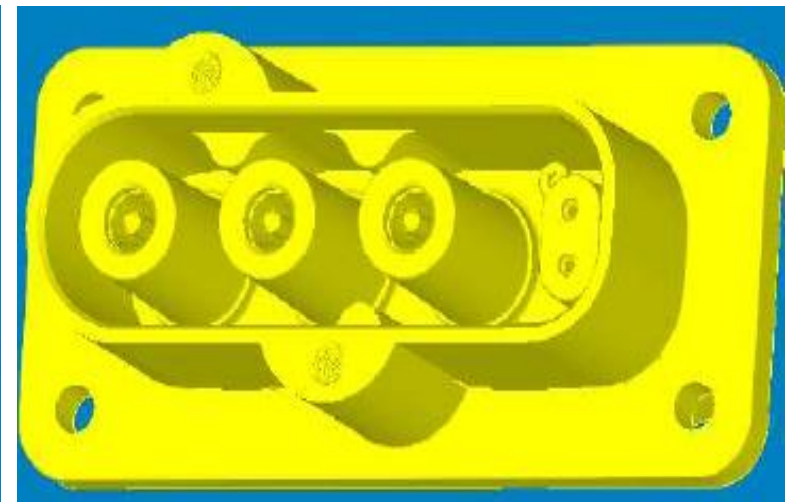
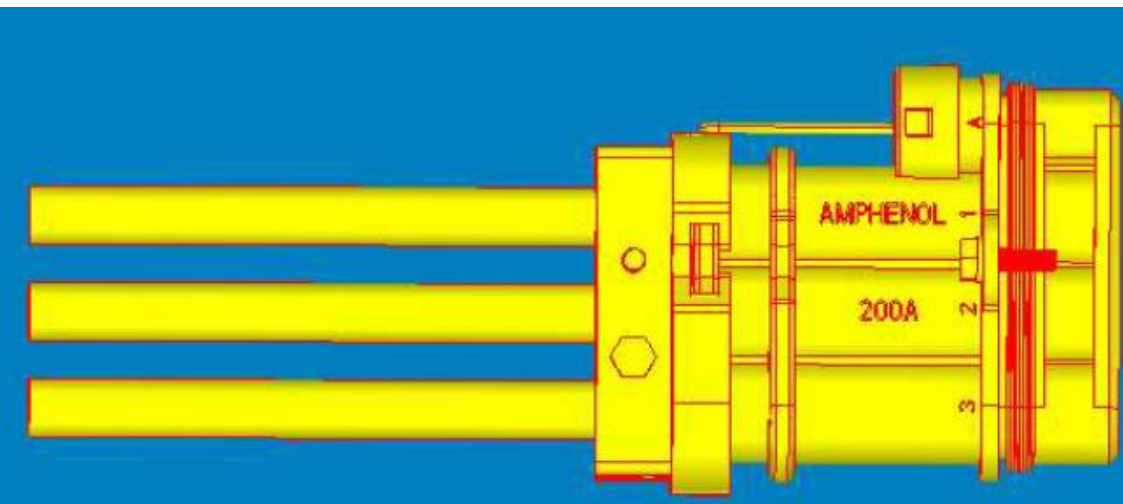
# ePower 200

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- The ePower 200 connectors feature integrated EMI shielding and Amphenol's patented RADSOK technology that attains higher current ratings and lower contact resistance in comparison to other contact methods on the market.
- This versatile new connector operates at 600 V DC with a 200 A rating. In the growing energy storage market, where space is at a premium and budgets are often limited, these cost-effective ePower connectors can replace up to three conventional connectors, saving on space and cost.
- The ePower 200 features more power in less space with the RADSOK contact system, an electrical terminal based on a hyperbolic grid configuration that allows lower insertion forces and easier mating.





# Code Logic

1		2		3		4		5		6		7	
e		P		2		2		25		1		1	
Product line		Connector		Amp Level		Number of Poles		Wire Size		Key Position		Plating	
e	ePower	P	Plug	2	200A	2	2 Pole	BB	Busbar (Receptacle Only)	1	Available in 2 & 3 Pole	1	Electroless Nickel
		R	Receptacle	4	400A	3	3 Pole	25	25 mm <sup>2</sup> (200A Only)	2	Available in 2 & 3 Pole	FG	Tin over Nickel
								35	35 mm <sup>2</sup> (200A Only)	3	Available in 2 & 3 Pole	B	No Plating
								50	50 mm <sup>2</sup> (200A or 400A)	4	Available in 2 & 3 Pole		
								70	70 mm <sup>2</sup> (400A Only)	5	Available in 3 Pole Only		
								95	95 mm <sup>2</sup> (400A Only)	6	Available in 3 Pole Only		
										7	Available in 3 Pole Only		
										8	Available in 3 Pole Only		

