



# EV Power Distribution Enclosures

Connecting tomorrow's  
infrastructure

# Connecting tomorrow's infrastructure



## Contents

**The future is EV**

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**Choosing your Solution**

---

**Compliance and Standards**

---

**Sizing Guide**

---

**EVIS Pillar Range:**

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**DNO (Amp):**

**100, 200, 400, 630**

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**Private (Amp):**

**100, 200, 400, 630**

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**Other Connection Solutions**

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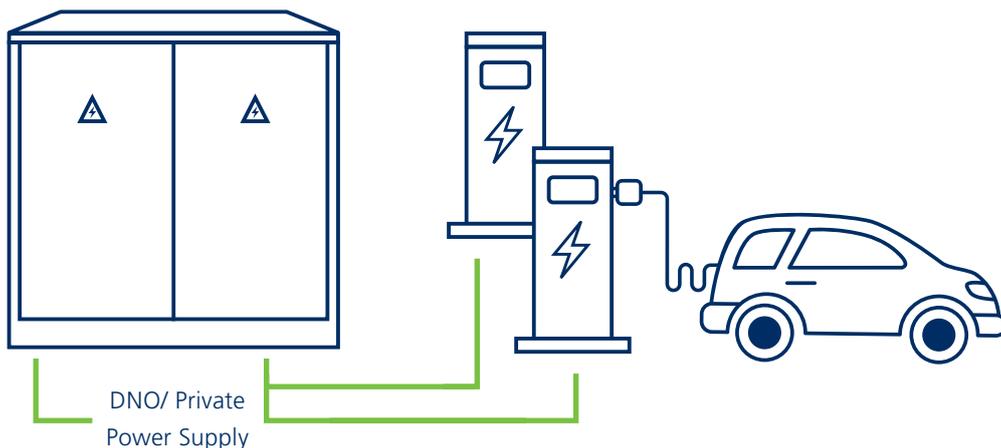


# The Future is EV

**Rising carbon emissions are having a major impact on global warming. As a result, governments are introducing aggressive sustainability targets focusing on the rapid deployment of net zero solutions.**

The UK government's targets surrounding the reduction of carbon emissions from road vehicles are driving vehicle manufacturers to Electric Vehicles from traditional ICE vehicles, which in turn is increasing the importance of easily accessible EV Charging Networks that are safe, secure, and reliable.

As part of the Lucy Group, along with our sister company Lucy Electric, Lucy Zodion is uniquely positioned to meet a wide range of electrical connection requirements from large EV Hubs down to On-Street Charging.



To support the implementation of EV Charging Networks across both Public and Commercial markets, Lucy Zodion have launched the EVIS Pillar Range, Electric Vehicle Infrastructure Solutions, a range of standard EV Connection Feeder Pillars that are site-ready and available for express delivery.

The EVIS Pillar Range is designed to meet a wide range of application requirements from 100A – 630A for both Private Supply and New DNO Supplies, in both TT and PME earthing installations.

The EVIS Pillar Range of EV Connection Feeder Pillars are available in several different configurations, enabling installers to select the correct layout for their needs.

Housed in Lucy Zodion's market leading Fortress HDG Feeder Pillars, solutions are available in both TT and PME earthing options, with incomers rated at 100A, 200A, 400A and 630A.



# Help Choosing Your Solution

Ordering a feeder pillar for an EV installation has never been easier.

With short, market-leading delivery times guaranteed.

The most important questions to consider when selecting your Feeder Pillar, include:

## 1. Incomer Size

What current rating is the incoming supply?

- 100A
- 200A
- 400A
- 630A

## 2. Incoming Supply Type

Is the incoming supply a Private connection (from an electric panel) or a District Network Operator (DNO) supply?

The EVIS Pillar Range has options for both Private and DNO incoming supplies. Please ensure you select a DNO option when required. This option is a slightly larger enclosure size as it provides specially allocated space for a DNO Cut-Out and cable entry.

## 3. Chargepoints

How many EV Chargepoints is the Feeder Pillar powering and what are their ratings?

The EVIS range is available in several configurations designed to meet all onsite layouts, including those with a mix of EV Chargepoints. Outgoing devices include both single-phase and three-phase enabling EV Chargers to be powered, from 7kW – 50kW. In the event a non-standard mix is required please contact our technical sales team who will be able to support bespoke solutions.

## 4. Earthing System

What kind of earthing system is required, is it a TT system or a Protective Multiple Earthing (PME) system?

TT systems, where an earth rod is installed to provide the earth, is the most common. However, where it is not possible to fit an earth rod or mat then fitting PEN detection technology is a well-recognised alternative, especially in safety-critical locations.



Example of EVIS Pillar for a DNO supply

# Compliance & Standards

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**The EVIS standard range of EV Connection Pillars are manufactured and tested in accordance to the following standards.**

## Electrical compliance:

- BS7671: IET Wiring Regulations - covers the electrical installation of buildings including the use of surge protection.
- BS7671: IET code of practice for electric charging
- BS EN 61439: Low-voltage switchgear and control gear assemblies.

## Galvanised Pillar compliance:

- BS EN ISO 1461: Hot dip galvanized coatings on fabricated iron and steel articles. Specifications and test methods.
- BS EN 636: Plywood Specifications - Class 2.
- BS EN 13986: Wood-based panels for use in construction. Characteristics; evaluation of conformity and marking.

## Equipped Pillars:

- Restriction of the use of certain hazardous substances Directive 2011/65/EU
- Low Voltage Directive (LVD) 2014/35/EU



# Sizing Guide

The EVIS Range utilises the marketing leading Fortress Range of street lighting pillars providing a modular solution for EV infrastructure that simplifies the installation process.

Pillar Sizes and Dimensions								
	Unit Type	Pillar Size	Height (mm)	Width (mm)	Depth (mm)	Estimated Weight (kg)	Enclosure Material	Doors
	100A Private	Size 12	1294	1110	400	200	Hot Dipped Galvanised Mild Steel (3mm)	1 (Single)
	100A DNO	Size 14	1300	1250	450	250	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	100A DNO	Size 16	1300	1500	450	250	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	200A Private	Size 22	1600	1250	450	275	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	200A Private	Size 24	1600	1500	450	300	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	200A DNO/ 200A Private	Size 26	1600	1750	450	325	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	200A DNO	Size 30	1600	2250	450	400	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	400A Private	Size 32	2000	1500	600	500	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	400A Private/ 630A Private	Size 36	2000	2000	600	600	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	630A DNO/ 630A Private	Size 42	2200	2250	600	600	Hot Dipped Galvanised Mild Steel (3mm)	2 (Double)
	400A DNO/ 630A DNO	Size 52	2200	2850	600	1000	Hot Dipped Galvanised Mild Steel (3mm)	3 (1 single, 1 double)

\*All enclosures in the standard range are Hot Dipped Galvanised as standard. Units can be painted on request however this will lengthen lead time.

100Amp

100Amp DNO												
Type	EV1008007GT	EV1008007GE	EV1008007LT	EV1008007LE	EV1003022GT	EV1003022GE	EV1003022LT	EV1003022LE	EV1002043LT	EV1002043LE	EV1001050LT	EV1001050LE
Rating	7 KW (40A SPN)		7 KW (40A SPN)		22 KW (40A TPN)		22 KW (40A TPN)		43 KW (63A TPN)		50 KW (80A TPN)	
Charge Points	8		8		3		3		2		1	
Internals												
Earthing	TT	PME										
Internal Enclosures	Non-Conductive Class II											
Heater	Anti-condensation (pre-set to 5°C)											
Protection	MCCB main incomer											
Earth Leakage	30mA	30mA	300mA	300mA	30mA	30mA	300mA	300mA	300mA	300mA	300mA	300mA
Earth Leakage Type	Type A											
Externals												
Enclosure	Hot-Dip Galvanised											
Lock Type	Wedglock											
Compliance & Approvals												
IET Wiring Regulations	BS7671											
IET code of practice for EV charging	BS7671											
Mild Steel-Galvanised	BS EN ISO 1461											
Pillar Size												
(See Size Guide for Pillar Dimensions)	14	16	14	16	14	16	14	16	14	16	14	14

100Amp Private												
Type	EV100P8007GT	EV100P8007GE	EV100P8007LT	EV100P8007LE	EV100P3022GT	EV100P3022GE	EV100P3022LT	EV100P3022LE	EV100P2043LT	EV100P2043LE	EV100P1050LT	EV100P1050LE
Rating	7 KW (40A SPN)		7 KW (40A SPN)		22 KW (40A TPN)		22 KW (40A TPN)		43 KW (63A TPN)		50 KW (80A TPN)	
Charge Points	8		8		3		3		2		1	
Internals												
Earthing	TT	PME										
Internal Enclosures	Non-Conductive Class II											
Heater	Anti-condensation (pre-set to 5°C)											
Protection	MCCB main incomer											
Earth Leakage	30mA	30mA	300mA	300mA	30mA	30mA	300mA	300mA	300mA	300mA	300mA	300mA
Earth Leakage Type	Type A											
Externals												
Enclosure	Hot-Dip Galvanised											
Lock Type	Wedglock											
Compliance & Approvals												
IET Wiring Regulations	BS7671											
IET code of practice for EV charging	BS7671											
Mild Steel-Galvanised	BS EN ISO 1461											
Pillar Size												
(See Size Guide for Pillar Dimensions)	12	12	12	12	12	12	12	12	12	12	12	12

\* Charge points shall be required to have load management software installed

200Amp

200Amp DNO												
Type	EV2001607GT	EV2001607GE	EV2001607LT	EV2001607LE	EV2006022GT	EV2006022GE	EV2006022LT	EV2006022LE	EV2004043LT	EV2004043LE	EV2003050LT	EV2003050LE
Rating	7 KW (40A SPN)		7 KW (40A SPN)		22 KW (40A TPN)		22 KW (40A TPN)		43 KW (63A TPN)		50 KW (80A TPN)	
Charge Points	16		16		6		6		4*		3*	
Internals												
Earthing	TT	PME										
Internal Enclosures	Non-Conductive Class II											
Heater	Anti-condensation (pre-set to 5°C)											
Protection	MCCB main incomer											
Earth Leakage	30mA	30mA	300mA	300mA	30mA	30mA	300mA	300mA	300mA	300mA	300mA	300mA
Earth Leakage Type	Type A											
Externals												
Enclosure	Hot-Dip Galvanised											
Lock Type	Wedglock											
Compliance & Approvals												
IET Wiring Regulations	BS7671											
IET code of practice for EV charging	BS7671											
Mild Steel-Galvanised	BS EN ISO 1461											
Pillar Size												
(See Size Guide for Pillar Dimensions)	26	30	26	30	26	30	26	30	26	30	26	30

200Amp Private												
Type	EV200P1607GT	EV200P1607GE	EV200P1607LT	EV200P1607LE	EV200P6022GT	EV200P6022GE	EV200P6022LT	EV200P6022LE	EV200P4043LT	EV200P4043LE	EV200P3050LT	EV200P3050LE
Rating	7 KW (40A SPN)		7 KW (40A SPN)		22 KW (40A TPN)		22 KW (40A TPN)		43 KW (63A TPN)		50 KW (80A TPN)	
Charge Points	16		16		6		6		4*		3*	
Internals												
Earthing	TT	PME										
Internal Enclosures	Non-Conductive Class II											
Heater	Anti-condensation (pre-set to 5o C)											
Protection	MCCB main incomer											
Earth Leakage	30mA	30mA	300mA	300mA	30mA	30mA	300mA	300mA	300mA	300mA	300mA	300mA
Earth Leakage Type	Type A											
Externals												
Enclosure	Hot-Dip Galvanised											
Lock Type	Wedglock											
Compliance & Approvals												
IET Wiring Regulations	BS7671											
IET code of practice for EV charging	BS7671											
Mild Steel-Galvanised	BS EN ISO 1461											
Pillar Size												
(See Size Guide for Pillar Dimensions)	22	24	22	26	22	24	22	24	22	24	22	24

\* Charge points shall be required to have load management software installed

400Amp

400Amp DNO										
Type	EV4001222GT	EV4001222GE	EV4001222LT	EV4001222LE	EV4008043LT	EV4008043LE	EV4005050LT	EV4005050LE	EV4002120LT	EV4002120LE
Rating	22 KW (40A TPN)		22 KW (40A TPN)		43 KW (63A TPN)		50 KW (80A TPN)		120/150 KW (250A TPN)	
Charge Points	12		12		8*		5*		2*	
Internals										
TT	TT	PME								
Non-Conductive Class II	Non-Conductive Class II									
Heater	Anti-condensation (pre-set to 5°C)									
MCCB main incomer	MCCB main incomer									
Earth Leakage	30mA	30mA	300mA	300mA	300mA	300mA	300mA	300mA	300mA	300mA
Type A	Type A									
Externals										
Enclosure	Hot-Dip Galvanised									
Lock Type	Wedgelock									
Compliance & Approvals										
IET Wiring Regulations	BS7671									
IET code of practice for EV charging	BS7671									
Mild Steel-Galvanised	BS EN ISO 1461									
Pillar Size										
(See Size Guide for Pillar Dimensions)	52	52	52	52	52	52	52	52	52	52

400Amp Private										
Type	EV400P1222GT	EV400P1222GE	EV400P1222LT	EV400P1222LE	EV400P8043LT	EV400P8043LE	EV400P5050LT	EV400P5050LE	EV400P2120LT	EV400P2120LE
Rating	22 KW (40A TPN)		22 KW (40A TPN)		43 KW (63A TPN)		50 KW (80A TPN)		120/150 KW (250A TPN)	
Charge Points	12		12		8*		5*		2*	
Internals										
TT	TT	PME								
Non-Conductive Class II	Non-Conductive Class II									
Heather	Anti-condensation (pre-set to 5°C)									
MCCB main incomer	MCCB main incomer									
Earth Leakage	30mA	30mA	300mA	300mA	300mA	300mA	300mA	300mA	300mA	300mA
Type A	Type A									
Externals										
Enclosure	Hot-Dip Galvanised									
Lock Type	Wedgelock									
Compliance & Approvals										
IET Wiring Regulations	BS7671									
IET code of practice for EV charging	BS7671									
Mild Steel-Galvanised	BS EN ISO 1461									
Pillar Size										
(See Size Guide for Pillar Dimensions)	36	36	36	36	32	36	32	36	32	36

\* Charge points shall be required to have load management software installed

630Amp

630Amp DNO										
Type	EV6301822GT	EV6301822GE	EV6301822LT	EV6301822LE	EV6301043LT	EV6301043LE	EV6307050LT	EV6307050LE	EV6303120LT	EV6303120LE
Rating	22 KW (40A TPN)		22 KW (40A TPN)		43 KW (63A TPN)		50 KW (80A TPN)		120/150 KW (250A TPN)	
Charge Points	18		18		10		7		3*	
Internals										
TT	TT	PME								
Non-Conductive Class II	Non-Conductive Class II									
Heater	Anti-condensation (pre-set to 5°C)									
MCCB main incomer	MCCB main incomer									
Earth Leakage	30mA	30mA	300mA	300mA	300mA	300mA	300mA	300mA	300mA	300mA
Type A	Type A									
Externals										
Enclosure	Hot-Dip Galvanised									
Lock Type	Barlock (3 point)									
Compliance & Approvals										
IET Wiring Regulations	BS7671									
IET code of practice for EV charging	BS7671									
Mild Steel-Galvanised	BS EN ISO 1461									
Pillar Size										
(See Size Guide for Pillar Dimensions)	52	52	52	52	52	52	52	52	52	52

630Amp Private										
Type	EV630P1822GT	EV630P1822GE	EV630P1822LT	EV630P1822LE	EV630P1043LT	EV630P1043LE	EV630P7050LT	EV630P7050LE	EV630P3120LT	EV630P3120LE
Rating	22 KW (40A TPN)		22 KW (40A TPN)		43 KW (63A TPN)		50 KW (80A TPN)		120/150 KW (250A TPN)	
Charge Points	18		18		10		7		3*	
Internals										
TT	TT	PME								
Non-Conductive Class II	Non-Conductive Class II									
Heater	Anti-condensation (pre-set to 5°C)									
MCCB main incomer	MCCB main incomer									
Earth Leakage	30mA	30mA	300mA	300mA	300mA	300mA	300mA	300mA	300mA	300mA
Type A	Type A									
Externals										
Enclosure	Hot-Dip Galvanised									
Lock Type	Barlock (3 point)									
Compliance & Approvals										
IET Wiring Regulations	BS7671									
IET code of practice for EV charging	BS7671									
Mild Steel-Galvanised	BS EN ISO 1461									
Pillar Size										
(See Size Guide for Pillar Dimensions)	36	42	36	42	36	36	36	36	36	36

\* Charge points shall be required to have load management software installed

# Other EV Charging Connections Solutions



Alongside our Standard range of EV Connection Feeder Pillars Lucy Zodion also provide a host of other connection solutions.

## Commercial & Public Realm EV Installations

If a standard sized EVIS pillar is not suitable for your application, Lucy Zodion provides bespoke EV installations to large Super Charger sites and EV Hubs.

Please contact our technical sales team for further information and support.



## On-Street Charging

A selection of 25A Secondary Isolators suitable for mounting in a lamppost where On-Street EV Chargers are installed or spurred from. Consisting of a Switch Disconnecter, RCBOs and Fused protection of the luminaire.

Specifications and options can be client specified.



EVIS Isolator  
THM0122926



## Residential EV Charging

The 100A 5-Way, Single-Pole MLNS Connector Block takes up to 35mm<sup>2</sup> cables making it the ideal product when connecting a residential EV charger or splicing/looping the incoming supply for the provision of renewables at home.



MLNS Block  
0350012009



  
**Danger**  
400 Volts

  
**CCTV**  
in operation

KONA

electric

CHARGING

CHARGE

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