Technical Datasheet & DNO Connection Information

AC Wallbox Range
Document ref: RIPEV-TDS-AC-01 · Nov 2026



Model	Phase	Output	Connection
RIPON1S-3210A / RIPON1S-3210LCD-A	Single	7.4 kW	Untethered (Type 2 socket)
RIPON1L-3210A / RIPON1L-3210LCD-A	Single	7.4 kW	Tethered (Type 2 lead)
RIPON3S-3210A / RIPON3S-3210LCD-A	Three	22 kW	Untethered (Type 2 socket)
RIPON3L-3210A / RIPON3L-3210LCD-A	Three	22 kW	Tethered (Type 2 lead)

"LCD" denotes the version with built-in display. Electrical specification is identical with or without LCD.

Open-PEN protection built in · **AC output only – not V2G** · **6 mA DC detection** · **CT load management** · **OZEV approved** · **UKCA**

ELECTRICAL SPECIFICATION

Supply	Single phase: 1P+N+PE, AC 220–240 V 50/60 Hz Three phase: 3P+N+PE, AC 380–415 V 50/60 Hz
Rated / maximum current	32 A per phase maximum, adjustable 6–32 A
Rated output power	7.4 kW (single phase) · 22 kW (three phase)
Output type	AC (Mode 3), Type 2 to EN 62196. No export capability.
Standby consumption	< 10 W
Current setting (DIP switch)	32 A: minimum 6 mm² copper, 40 A circuit breaker 16 A: minimum 2.5 mm² copper, 20 A circuit breaker Fine adjustment 6–32 A via app, never above the DIP setting.

BUILT-IN PROTECTION

PEN fault (open-PEN) protection	✓ Integrated. Suitable for connection to a TN-C-S (PME) supply without an earth electrode (BS 7671 Reg. 722.411.4.1).
Residual current	✓ AC Type A 30 mA, with 6 mA DC fault detection. Allows an upstream Type A RCD (BS 7671 Reg. 722.531.3.101).
Other protection	Over-current · over/under-voltage · over-temperature · earth check (switchable)
External protection required	Dedicated MCB sized to the DIP setting, plus an RCD (Type A or Type B) to local regulations

LOAD MANAGEMENT & SMART FUNCTIONS

Dynamic load balancing (DLB)	CT clamp on the incoming supply. The charger reduces its output so the total premises load stays below the set limit. Factory default limit is 60 A, adjustable in the app. On three-phase units the lowest-headroom phase governs output.
Connectivity & protocol	Wi-Fi and Ethernet · OCPP 1.6J · app control, scheduling, RFID (where fitted)
Randomised delay	Up to 600 seconds per charge start, in line with the Electric Vehicles (Smart Charge Points) Regulations 2021. User can turn it off.
Group management	Main and secondary charger linking via RS485 for multi-charger sites

PHYSICAL & ENVIRONMENTAL

Dimensions (H × W × D)	330 × 200 × 122 mm. Fits the standard gap beside a UK downpipe.
Ingress protection	Untethered (S): IP55 · Tethered (L): enclosure IP65, connector IP54
Enclosure	ABS + PC, flammability rating V-0, black. Wall or pillar mounted.
Operating range	−25 °C to +50 °C · 3–95 % RH · altitude < 2000 m
Certification & standards	UKCA · CE · OZEV approved · EN 61851 · EN 62196

DNO Connection Information – ENA EVCP & HP Form v3.3

For installers completing the DNO application or notification

RiponEV AC chargers are AC-output charge points with no export. Under the ENA form, AC charge points do **not** need an ENA EVCP Database entry, harmonic data or Section F. That only applies to DC and V2G equipment. Use the values below to complete Section E and check eligibility for Section B.

SECTION E – EQUIPMENT TO BE INSTALLED

Form field	Single phase (RIPON1S / RIPON1L)	Three phase (RIPON3S / RIPON3L)
Type of equipment	☒ Electric Vehicle Charge Point (EVCP)	☒ Electric Vehicle Charge Point (EVCP)
Maximum current demand	☒ Single phase: 32 A (or the DIP/app setting if lower)	☒ Three phase: 32 A per phase
Manufacturer	RiponEV (Ripon Group Ltd)	
Model	RIPON1S-3210A / RIPON1L-3210A (or LCD-A version)	RIPON3S-3210A / RIPON3L-3210A (or LCD-A version)
Model in ENA EVCP Database (DC only)	Not applicable. AC output charge point.	
V2G / export capacity	Not applicable. No V2G or export function. Section D and Section F not required.	

SECTION B – NOTIFICATION CRITERIA (EVCP)

AC Output	☒ Yes, on all RiponEV AC models
Premises MD ≤ 13.8 kVA (60 A) per phase	Where the load survey shows MD above 60 A, set the RiponEV CT load management limit to 60 A or lower. The premises is then load-limited and this box can be ticked. State the limited MD in Section C (factory default is 60 A).
Load limited below cut-out rating	Set the DLB limit below the cut-out fuse rating (e.g. 60 A on an 80 A or 100 A cut-out)
Single additional device	One charger per form. For multiple chargers or group management, use the ENA multi-install spreadsheet.

Important: the site-specific criteria are the installer's responsibility to confirm on survey. These are the cut-out rating, looped service, metered supply and condition of the DNO equipment. Where any criterion cannot be met, apply to the DNO before connecting.

SECTION C – SUPPLY DETAILS

Import or load limiting device on premises	☒ Yes, where the CT clamp is fitted. Enter the MD with the limit applied (the DLB value set in the app).
G100 export limiting scheme	Not required for the charger. No export from RiponEV AC units.
Earthing arrangement	TN-C-S (PME) is acceptable without an earth rod, because open-PEN protection is built in. TT and TN-S are also supported.

INSTALLER COMMISSIONING CHECKLIST

1	Set the DIP switch to match the cable and MCB (32 A: 6 mm² / 40 A MCB; 16 A: 2.5 mm² / 20 A MCB)
2	Fit the CT clamp on the incoming meter tail. Set the DLB value at or below the figure declared on the DNO form.
3	Photograph the DIP switch, CT position and app DLB setting for the job file
4	Test and certify to BS 7671. Submit the ENA notification to the DNO within 28 days of installation.