

TURBO POWER SYSTEMS Powering Intelligent Solutions

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Process Owner: June Boylan

Revision Number: 01

Manufacturing Work Instruction

801325 120kW 920V RAPID CHARGER PACKING INSTRUCTION

Process: Supply Subject: 801325 120kW 920V RAPID CHARGER PACKING INSTRUCTION

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1. Scope

This document applies to the packing of the EVCP (801325) 120kW 920V RAPID CHARGER and enables a consistent and efficient manufacturing standard.

2. Safety and General Process Requirements

Refer to Risk assessment RA-68 – packing and despatch.

Any use of the overhead crane must only be done by trained employees with a valid and in date license only – Refer to RA-74 & SWP-19 for safety information regarding the overhead crane.

3. Method

The following describes the packing of the EVCP (801325) 120kW 920V RAPID CHARGER.



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Shock, tilt and Centre of gravity labels

All packaging requires 2 off shock labels to be fitted externally on perpendicular sides (1 per side) of the packing crate. To select the appropriate shock label, refer to figure 1 - the Weight (Kg) and volume (m³) of the packing crate is required to calculate which shock label is required. The volume (m³) of the packing crate is calculated using the formula *Length x Width x Height*.

Figure 1:							
ShockWatch 2	5 - 15 ft³ .1442 m³	15 - 50 ft³ .42 - 1.42 m³	50 - 100 ft³ 1.42 - 2.83 m³	100 - 250 ft³ 2.83 - 7.08 m³	250 - 500 ft³ 7.08 - 14.16 m³	500 - 1,000 ft³ 14.16 - 304.8 m³	1,000+ ft ³ 304.8+ m ³
0 - 10 lbs 0 - 5 kg	75G	75G	50G	37G			
10 - 25 lbs 5 - 11 kg	75G	50G	50G	37G	25G		
25 - 50 lbs 11 - 23 kg	50G	50G	37G	25G	25G	15G	
50 - 100 lbs 23 - 45 kg	50G	37G	37G	25G	15G	15G	10G
100 - 250 lbs 45 - 113 kg	37G	37G	25G	25G	15G	15G	10G
250 - 1,000 lbs 113 - 454 kg	37G	25G	25G	15G	15G	10G	10G
1,000 - 2,000 lbs 454 - 907 kg	25G	25G	25G	15G	15G	10G	5G
2,000 - 5,000 lbs 907 - 2,268 kg	25G	25G	15G	15G	10G	10G	5G
5,000 - 10,000 lbs 2,268 - 4,536 kg	25G	15G	15G	15G	10G	10G	5G
10,000 - 15,000 lbs 4,536 - 6,804 kg		15G	15G	10G	10G	5G	5G
15,000 - 20,000 lbs 6,804 - 9,072 kg			10G	10G	5G	5G	5G
20,000 - 30,000 lbs 9,072 - 13,608 kg				5G	5G	5G	5G
30,000+ lbs 13,608+ kg					5G	5G	5G

Once the required shock label has been identified, use figure 2 to find the associated TPS part number.

Figure 2:		
TPS Part No.	Description	Sesitivity
908348-ROP	10 PACK OF 5G 6.35mm X 45.93mm SHOCK LABELS	5G
908349-ROP	10 PACK OF 10G 6.35mm X 45.93mm SHOCK LABELS	10G
908346-ROP	10 PACK OF 15G 6.35mm X 45.93mm SHOCK LABELS	15G
908345-ROP	10 PACK OF 25G 6.35mm X 45.93mm SHOCK LABELS	25G
908350-ROP	10 PACK OF 37G 6.35mm X 45.93mm SHOCK LABELS	37G
908351-ROP	10 PACK OF 50G 6.35mm X 45.93mm SHOCK LABELS	50G
908352-ROP	10 PACK OF 75G 6.35mm X 45.93mm SHOCK LABELS	75G

Additionally, all packaging requires 2 off tilt labels (908347-ROP) and 2 off centre of gravity labels (520924) to be fitted next to the shock labels. The centre of gravity labels must be placed centrally on the two sides of the packing crate.



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3.1	Obtain the EV Charger packing kit (170078). The kit consists of the following parts:	
	1 off 909120 (Packing case – supplied flat pack along with foil bag and silica gel packets)	
	2 off 908347 (Tilt labels) 2 off 908345 (25G shock labels)	
	1 off 908886 (Carboard box) 1 off 520923 (Stop warning	
	sign) 2 off 520924 (Centre of gravity labels) 2 off 909125 (Quick start	
	Guide) 2 off 909126 (A5 plain document holder)	
	Separate the parts of the packing case so the base of the crate is ready to pack the EVCP on to.	
3.2	Position the base of the foil bag on the crate & position the unit on the crate as shown using the overhead crane. Ensure the wood	
	beams attached to the unit are secured to the charger feet and located on the inside of the 4 stoppers and	
	the unit is centralised to provide sufficient clearance from all sides.	
3.3	Check 2 off 520881 Warning tags are fitted to the bolts that secure the shipping supports to the base of the charger.	

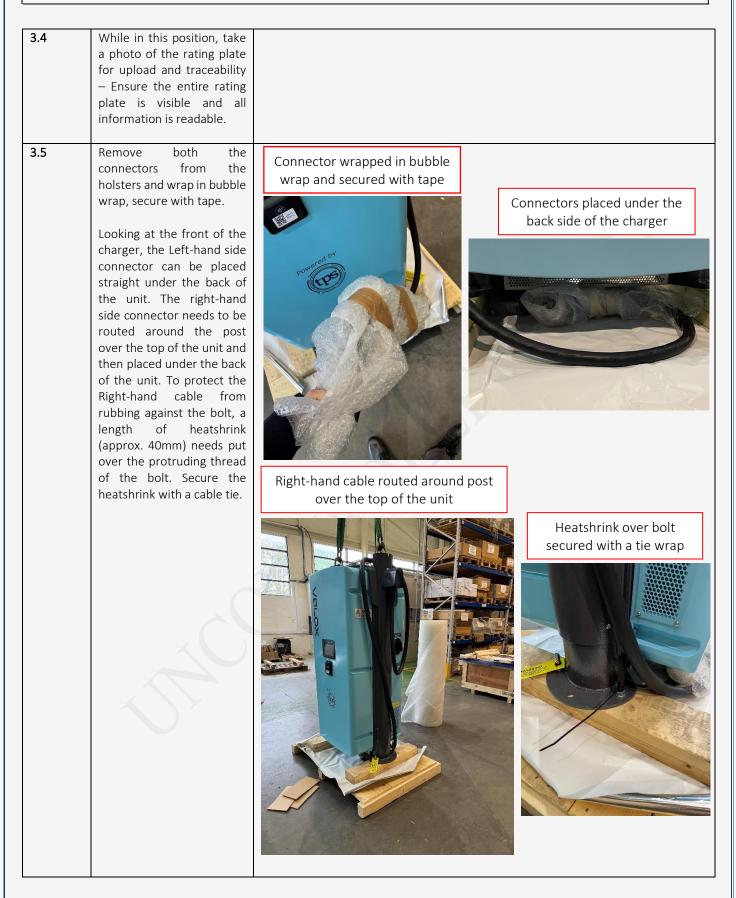




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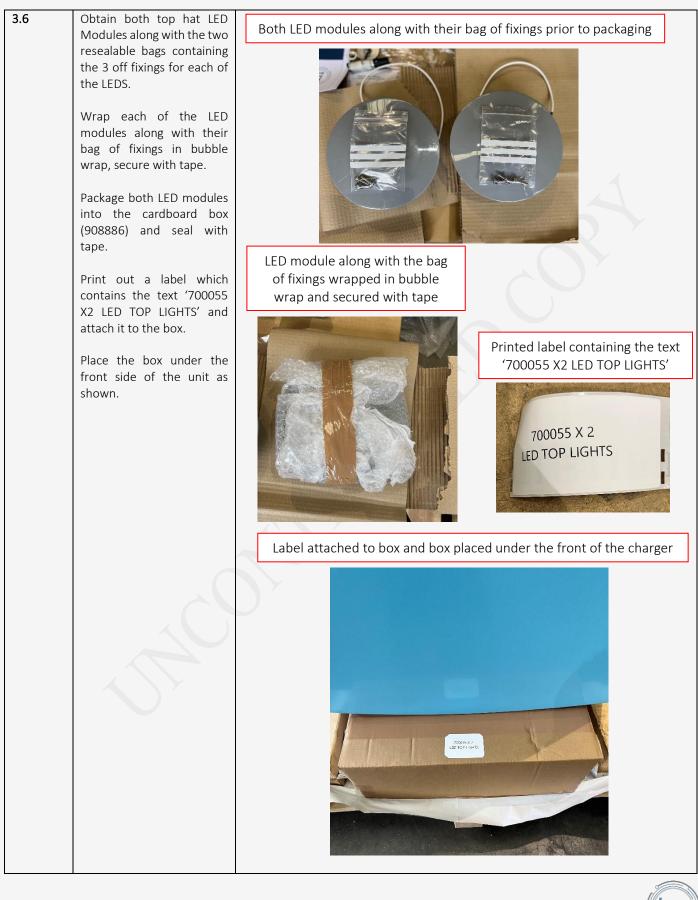
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3.7	Place a total of 4 silica gel bags at the base of the charger.	
3.8	Obtain the Certificate of conformity (Coc) and 1 off Velox <i>i</i> Range Ultra Rapid EV Charger Quick Guide (909125) and place in an A5 adhesive- backed transparent document holder (909126). Attach the bag to the front of the charger in the position shown.	<image/>
3.9	Place the top part of the foil bag over the unit	
		Template: WI4-35 revision 10

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3.11 Using the vacuum cleaner, place the nozzle into the gap and remove the air from the bag enough to give a shrink wrap, wraparound look. Then set is the hole with the crimper.	3.10	Align the lip of the foil bag with the foil base and crimp to seal it together – leave a gap in the bag for the hoover nozzle.	
	3.11	gap and remove the air from the bag enough to give a shrink wrap, wraparound look. Then seal	

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3.12	Apply 500mm length of foam padding to 4 x 1320mm runners in the position shown right. NOTE; Padding supplied with the packing crate.	10mm thick foam padding, 500mm long adhered centrally.
3.13	Attach the two narrow sides of the crate and fix into place along the bottom edge using 50mm dry wall screws and a handheld drill – stagger the screws roughly every 100mm to create extra strength.	
3.14	Attach X2 1320mm wooden runners across the front of the unit and X2 1320mm wooden runners across the back of the unit fixed to the sides with 50mm drywall screws. Note; the approximate positions shown right.	
3.15	Apply foam padding to 2 x 900mm runners in the position shown right. NOTE; Padding supplied with the packing crate.	10mm thick foam padding, 500mm long adhered centrally.
		Template: WI4-35 revision 10

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3.16	Attach the back side of the crate and fix with 50mm drywall screws along the bottom edge and up both sides. stagger the screws roughly every 100mm to create extra strength. Attach X2 900mm wooden runners in the position shown in the image and fix to the back with 50mm drywall screws. Note; the approximate positions shown right.	Runner location
3.18	Attach the front side of the crate and fix with 50mm drywall screws along the bottom edge and up both sides. stagger the screws roughly every 100mm to create extra strength. Additionally, use the same screws to attach to the wooden runners fitted in the previous step to the front side.	



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	with the packing crate.	
3.20	Attach X2 900mm wooden runners across the top of the unit located above the top of the cable post, fixed to the front and back with 50mm drywall screws. Note; the positions shown right.	
3.21	Put the lid of the crate into place and secure using the same method as attaching the sides with staggered 50mm dry wall screws.	

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3.22	Fold and staple whether sheet around the top edge of the crate.	<image/>
3.23	To aid unpacking, identify all screws using a red pain marker (908862-ROP) with a circle. Example shown in the image.	

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Place 1 off A5 adhesivebacked transparent document holder (909126) on the front side of the case as shown. Populate the document holder with 1 off Velox *i* Range Ultra Rapid EV Charger Quick Guide (909125) and a A5 stop warning sign (520923). Ensure the stop sign is at the front the document holder.

Additionally, attach 2 off 25G shock labels (908345), 2 off Tilt labels (908347) and 2 off centre of gravity labels (520924) to the packing case. 1 off each are to be placed centrally on the left side of the case and 1 off each are to be placed centrally on the front side of the case.

Reference the images for additionally clarification on the label placement.













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3.24	Ensure all required
	standard paperwork is
	available and included with
	each unit before dispatch.

Upon completion of the packing process, the overall size and weight of the overall unit is as follows: Size - 1380mm (L) x 960mm (W) x 2130mm (H)

Weight – Approx. 516Kg (Subject to change depending on modifications made to the product)

4. Document History

Revision Number:	Revision Date:	Summary of Changes	Changed by
1	20/05/2024	New Document	D. Wood
2			
3			
4			

This document requires approvals from the following company positions:

- Process Owner
- Quality Manager

