

6 MANUAL BUS/TRUCK CHARGING (up to 1,5 MW, I_{MAX} ≥ XXX) STAND XX.XX.2019 – V1.0

BMW, Liertz
Fokus auf Schnittstelle EV/EVSE: Ladetechnologie Nr.6,
27.11.2018, V1.0

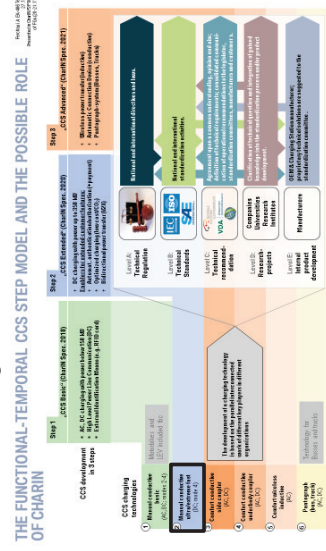
Charging System Specifications

Standardization	Documents	Content	Ecosys		Responsible	
			1	2	1	2
X	1. Directive 2014/96/EU	Altern. fuel Infrastructure	EVSE	?		
X	2. FPEEN Final Draft 17/186 Ed.1	Electricity/fuel labelling	EV-ENSE			
X	3. DIN SPEC 70121-2014	DC PLC	EV-ENSE			
X	4. ISO 15118-1:2013 Ed.1	AC/DC PLC general	EV-ENSE			
X	5. ISO 15118-2:2014 Ed.1	AC/DC network application	EV-ENSE			
X	6. ISO 15118-3:2015 Ed.1	AC/DC physical, data link	EV-ENSE			
X	7. IEC 61851-1:2017 Ed.3	Prio 1: Ed.4 mitentwickeln PWM	EV-ENSE			
X	8. IEC 61851-21:2:2017 Ed.1	Off-board charger/EMC	EVSE			
X	9. IEC 61851-23:2014 + COR1:2016 Ed.1	DC charging	EV-ENSE			
X	10. IEC 62196-1:2014 Ed.3	AC/DC general	EV-ENSE			
X	11. IEC CD 62196-3 Amd.1 Ed.1	DC Combo 1/2	EV-ENSE			
X	12. IEC TS CD 62196-3-1 Ed.1	DC Combo 1/2, them. manag.	EV-ENSE			
X	13. ISO 17409:2015 Ed.1	AC/DC electr. Safety	EV			
X	14. ISO 6469-3:2011 Ed.1	AC/DC electr. Safety	EV			
X	15. IEC FDIS 62893-1 Ed.1	AC/DC general	EV-ENSE			
X	16. IEC CD 62893-4-1 Ed.1	DC	EVSE			
X	17. IEC WD 62893-4-2 Ed.1	DC, therm. manag.	EVSE			
X	18. SAE J1772:2017 V7 revised	AC/DC, Type 1, Combo 1	EV-ENSE			
X	19. SAE J2847/2:2015 V1 issued	DC PLC use cases	EV-ENSE			
X	20. SAE J2847/2:2015 V3 revised	DC PLC (layer 3-7)	EV-ENSE			
X	21. SAE J2931/1:2014 V3 revised	DC PLC (layer 3-6)	EV-ENSE			
X	22. SAE J2931/4:2014 V2 revised	DC PLC (layer 1-2)	EV-ENSE			
X	23. SAE J2931/7:2018 V2 revised	DC PLC (TLS)	EV-ENSE			
X	24. SAE J2953/1:2013 V1 issued	AC/DC (OP CP and Prox)	EV-ENSE			
X	25. DIN 70121 Amendment	DC PLC (EIM, 80kW)	EV-ENSE			
X	26. IEC 61851-1 Amendment	AC/DC charging, PWM	EV-ENSE			
X	27. IEC 61851-23 Amendment	DC charging	EV-ENSE			
X	28. CCS 1.0 technical requirements spec. v X.Y	General specification, closing gaps in standards	EV-ENSE			
X	29. CCS design guide	General specification	EV-ENSE			
X	30. Guideline DC CCS 1.0 (DIN Spec)	DC PLC guideline	EV-ENSE			
X	31. CCS DC power classes	DC charging specification	EV-ENSE			

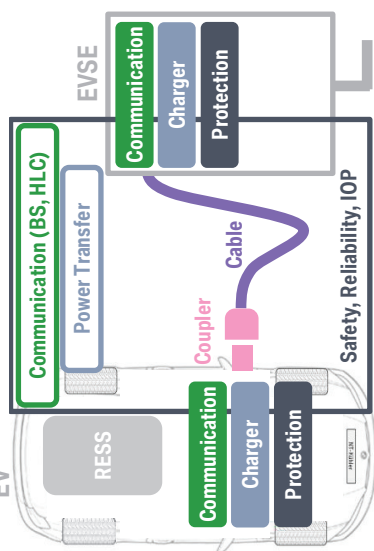
X: Documents applicable for this market.

Link through V-model

Bezug zum CCS Stufenmodell



Ausschnitt Ökosystem Laden



1	Availability:	available (published, e.g. on CharIN website)	not available (not yet published)
2	Quality:	satisfactory specification	small amendments needed
			severe amendments needed

Charging System Test Specifications

Documents	1	2	Responsible
32. DIN SPEC 70122:2018			
33. ISO 15118-4:2018 Ed.1			
34. ISO 15118-5:2018 Ed.1			
7. IEC 61851-1:2017 Ed.3			
8. IEC 61851-21:2:2017 Ed.1			
35. DIN VDE V 0122-2-300:2016			
10. IEC 62196-1:2014 Ed.3			
11. IEC CD 62196-3 Amd.1 Ed.1			
12. IEC CD 62196-3-1 Ed.1			
13. ISO 17409:2015 Ed.1			
14. ISO 6469-3:2011 Ed.1			
15. IEC FDIS 62893-1 Ed.1			
36. IEC FDIS 62893-2 Ed.1			
17. IEC WD 62893-4-2 Ed.1			
18. SAE J1772:2017 V7 revised			
20. SAE J2847/2:2015 V3 revised ?			
21. SAE J2931/1:2014 V3 revised ?			
22. SAE J2931/4:2014 V2 revised ?			
23. SAE J2931/7:2018 V2 revised ?			
37. SAE J2953/2:2014 V1 issued			
38. SAE J2953/3:2016 V1 WIP			
39. CCTS TestSpecs DIN 70122			
40. CCTS TestSpecs IEC 61851-1			
41. SLAM TestSpecs IEC 61851-1			
42. CCTS TestSpecs IEC 61851-23			
43. SLAM TestSpecs ISO 17409			
44. SLAM TestSpecs lessons learned			

THE FUNCTIONAL-TEMPORAL CCS STEP MODEL

AND THE PARALLEL WORK IN DIFFERENT ORGANIZATIONS



DRAFT

