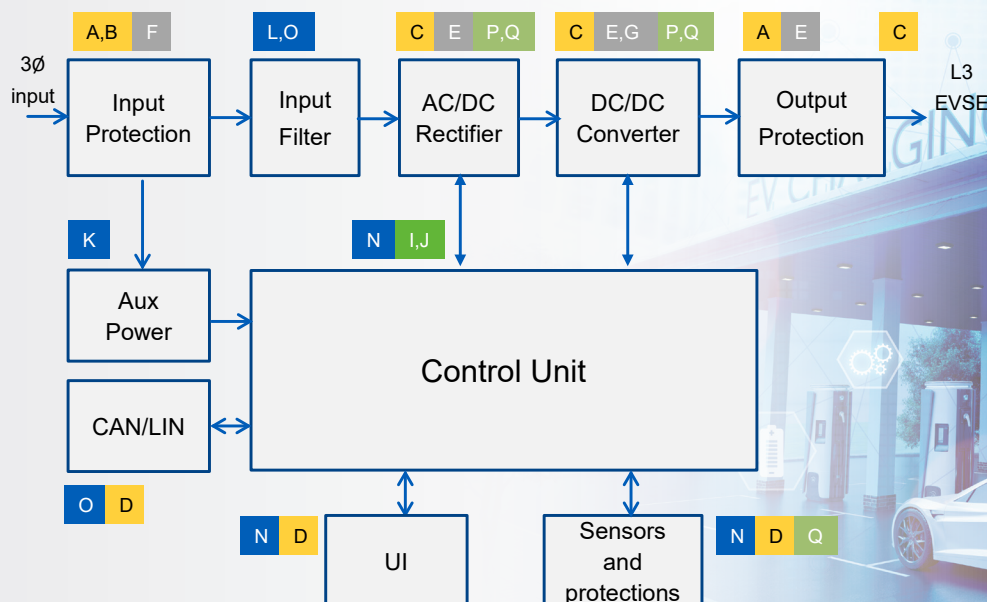


IIoT Solutions for EV Charging

In the rapidly evolving landscape of electric vehicles (EVs), smart solutions are paving the way for a more efficient and seamless charging experience, driving a strong demand for advanced control systems and IoT-enabled solutions.

How electronic components used here?

Charging station solution - L3



	Product	Series	Function
Circuit Protection	A High power dense cartridge fuses	10 mm EV fuses/14 mm EV fuses	AC and DC power line OC protection
	B Integrated metal oxide varistor and gas discharge tube/ Thermally protected multilayered varistors/ High power TVS Diodes	MOVTP, MOVGT, Akxx/15KPE High power TVS diodes	Surge protection
	C TVS Diodes	SMx TVS Diodes	Surge protection
	D Polymer ESD Suppressors/ Multilayer varistor ESD protection/High power TVS diodes	Polysurg ESD suppressors, MLVs, High power TVS diodes	OV protection signal line
Capacitors	E Film DC-Link capacitors	EFDKA	DC-link/LC Filter
	F Film safety capacitors	EFX1A, EFX2A	X safety cap
	G Pulse film capacitors	EFPLA	Snubbing/Resonant
	H AC Filtering film capacitors	EFACA	Power factor correction
Magnetics	I Coin cell supercapacitors	KR, KW	Real-time-clock backup
	J Cylindrical supercapacitors	TVA Supercapacitor cell	IoT communication backup
	K High current/ Semi-shielded inductors	HCM1A, MPIA, EXLA, SDCxA	DC/DC power inductor
	L Common-mode inductors	ECMx	Power line CMC noise filter
Sensors	M Ferrite beads/Chip inductors	MCL, MFB	EMI noise reduction (LV)
	N CAN-Ethernet inductors	ACE1V/ACE2V	CAN bus CMC filter
	O High power inductors	MTA1V/MTA2V	High power DM noise filter
	P Current sensing transformers/resistors	ECSTA, CHSA	Current sensing transformer/shunt
	Q Thermistors (Coming soon)	Nxx NTC Thermistors	Temperature sensing

Recommended Products



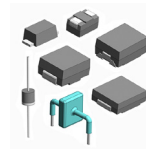
10 mm & 14 mm EV fuses

- 500 Vdc-1000 Vdc
- Current ratings up to 50 A (10 mm fuse), 80 A (14 mm fuse)



Integrated metal oxide varistor and gas discharge tube

- 7 mm to 20 mm disc sizes
- MCOV values from 70 V to 600 V



High power TVS diodes

- 1000 A -10000 A transient voltage suppressors
- Through hole package
- Very low clamping voltage



Polysurg ESD suppressors

- Ultra-low capacitance
- Metric sizes: Single line (1005/1608) and array (2510/3216)
- AEC-Q200 qualified



EFDKA DC-Link film capacitors

- Capacitance range: 1 μ F to 200 μ F
- Voltage rating: 450 Vdc to 1200 Vdc
- THB Grade IIIB, AEC-Q200, -55 °C to +105 °C



EFX1A/EFX2A Safety film capacitors

- -40 °C to +110 °C
- THB Grade IIIB and AEC-Q200 qualified
- UR/cUR, VDE/ENEC, CQC and KC approvals



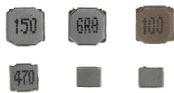
KR/KW Coin cell supercapacitors

- 11 to 21 mm diameter, height down to 6.5 mm
- Operating voltage up to 5.5 V, 0.1 F to 1.5 F capacity
- KR: -25 °C to 85 °C; KW: -40 °C to 85 °C



TVA Cylindrical supercapacitors

- Wire leaded cylindrical cells, 8 mm to 18 mm diameter, 20 mm to 60 mm length
- Operating voltage up to 3 V, 3.3 F to 100 F capacity, ultra low DC ESR
- AEC-Q200, -40 °C to +85 °C



SDCxA Semi-shielded inductors

- 4 mm, 5 mm, 6 mm, 8 mm SMT sizes
- Inductance range: 1.0 μ H to 100 μ H, rated up to 8 A, low DCR
- AEC-Q200, -55 °C to +125 °C



MFB Ferrite beads

- EIA/Metric Sizes: (0402/1005), (0603/1608), (0805/2012), (1206/3126)
- High impedance up to 2000 Ω , high current up to 6 A
- -55 °C to +125 °C



ACE1V/2V CAN-Ethernet inductors

- EIA/Metric Size: (0805/2012), (1210/3225), (1812/4532)
- Inductance range: 11 μ H to 200 μ H
- AEC-Q200, OPEN Alliance 2.0 (ACE2V), -40 °C to +125 °C



EXLA High current molded inductors

- SMT sizes: 4 mm, 5 mm, 6 mm, 7 mm, 8 mm, 10 mm
- Inductance range: 0.185 μ H to 22 μ H, rated up to 58 A, low DCR
- AEC-Q200, -55 °C to +155 °C



CHSA Current sense resistors

- 2512 (6432 metric) to 5930 (15076 metric) package
- High power ratings, up to 15 W
- AEC-Q200 qualified



ECSTA Current sense transformers

- SMT sizes: 5 mm, 7 mm, 8 mm, 13 mm (3 mm to 8 mm Height)
- Turn ratios available 20:1 to 200:1 and rated up to 15 A
- AEC-Q200, -40 °C to +125 °C



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