

PHOENIX CONTACT CHARX – E-Mobility products

Item type codes

Status of the document: July 2025

Item type code – PHOENIX CONTACT CHARX – connect

Charging cables



Product

Performance

Cable

Colors

Specific

CHARX ET2 C P - 3AC 32 - 5,0M E S 0 0 P

Product family	
CHARX connect eco	E
CHARX connect comfort	O
CHARX connect compact	A
CHARX connect standard	S
CHARX connect professional	P
CHARX connect commercial	M

Charging standard	
Type 1	T1
Type 2	T2
GB/T	GB
NACS	NA
Type 1 & Type 2	TA
Type 2 & GB/T	TB
GB/T & Type 2	TC
Type 1 & GB/T	TD

First cable end	
Connector	C
Key-Connector	K
Liquid cooled connector	H
Open cable end	

Second cable end	
Plug	P
Key-Plug	J
Straight panel feed-through	S
Left inclined panel feed-through	L
Right inclined panel feed-through	R
Open cable end	

Type of current	
AC 1Phase	1AC
AC 3Phase	3AC
DC	DC

Current	
13 A	13
16 A	16
20 A	20
30 A	30
32 A	32
40 A	40
48 A	48
50 A	50
60 A	60
80 A	80
125 A	125
150 A	150
180 A	180
200 A	200
250 A	250
400 A	400
500 A	500

Cable length	
0,2 Meter	0,2M
1,0 Meter	1,0M
1,5 Meter	1,5M
2,0 Meter	2,0M
3,0 Meter	3,0M
4,0 Meter	4,0M
4,5 Meter	4,5M
5,0 Meter	5,0M
6,0 Meter	6,0M
...	...
8,0 Feet	8,0F
10,0 Feet	10F
13,0 Feet	13F
25,0 Feet	25F
...	...
No cable	N

Cable measurement unit & production	
Metric cable from Europe	E
Metric cable from Europe and conform to PSE for Japan	J
Metric cable from China	C
Metric cable from US	W
Metric cable from China and conform to PSE for Japan	I
AWG cable from Europe	A
AWG cable from China	G
AWG cable from the US	U

Cable type	
Helix	H
Straight	S
Cooled	C

Cable color	
Black	0
Yellow	1
Orange	2
Red	3

Housing color	
Black / black	0
Black / grey	1

Label	
With PxC label	P
Blank label area	B
Without label area	W

Optional equipment		
AC cables	With temperature sensors (DC cables always contains!)	T
"Double" protected (with connector protective cap + with plug protective cap)		D
Unprotected (without all protective caps)		U
With parking position		P
Non		

Specific		
AC T2	Functional single sample	1
CCS2 Standard	IP55 (instead of IP67)	
CCS2 Professional	Packaging unit 1 (instead of 10)	2
CCS1 Professional	Adjusted sequences of production	3
	With digital out connection	
	No specific	

Item type code – PHOENIX CONTACT CHARX – connect

Charging cables



Product

Performance

Wire

Specific

EV - T2 M4 CC - DC 125A - 5,0M 50 E S BK 0 0 P

Electric vehicle	EV
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Charging standard	
Type 1	T1
Type 2	T2
GB/T	GB
Type 1 & Type 2	TA
Type 2 & GB/T	TB
GB/T & Type 2	TC
Type 1 & GB/T	TD

Charging mode handlebar design	
Mode 3	M3
Mode 4	M4
Level 2	L2

Charging mode new design	
Mode 3	G3
Mode 4	G4
Level 2	G2
HPC (High Power Charging)	HP

Generation 3 (only GB/T)	
Mode 3	N3

Type of current	
AC 1-phase	1AC
AC 3-phase	3AC
DC	DC

Heads of the cable	
Plug	P
Connector	C
Key connector	K
Key plug	J
Plug & connector	PC
Plug & key connector	PK
Key plug & Key connector	JK
CCS connector	CC

Performance	
16 Ampere	16A
20 Ampere	20A
32 Ampere	32A
40 Ampere	40A
48 Ampere	48A
50 Ampere	50A
60 Ampere	60A
80 Ampere	80A
125 Ampere	125A
150 Ampere	150A
180 Ampere	180A
200 Ampere	200A
250 Ampere	250A
400 Ampere	400A
500 Ampere	500A

Cable length	
4,0 Meter	4,0M
4,5 Meter	4,5M
5,0 Meter	5,0M
10,0 Meter	10,0M
X,X Meter	X,XM
18,0 feet	18,0F
25,0 feet	25,0F
X,X feet	X,XF
No cable	N

Cross section	
2,5 mm ²	2,5
6,0 mm ²	6,0
16 mm ²	16
25 mm ²	25
35 mm ²	35
50 mm ²	50
70 mm ²	70
14 AWG	14
10 AWG	10
6 AWG	6
1 AWG	1

Cable measurement unit & production	
Metric cable from Europe	E
Metric cable from Europe and conform to PSE for Japan	J
Metric cable from China	C
Metric cable from US	W
Metric cable from China and conform to PSE for Japan	I
AWG cable from Europe	A
AWG cable from China	G
AWG cable from the US	U

Cable style	
Helix	H
Straight	S
Cooled	C
Cooled without UL	X

Cable color	
Black	BK
Orange	OG
Red	RD
Yellow	YE
Blue	BU

2 nd part component color & label	
Grey + label area	0
Black + label area	1
Black + blank brand label area	3
Black + without label area	5
No specific	

Optional Specific	
AC connector with temperature sensor ¹⁾	T
Unprotected (without protective cap)	U
With parking position	P
With straight HPC panel feed-through	S
With left inclined HPC panel feed-through	L
With right inclined HPC panel feed-through	R
With measurement of cable dissipation power via 4-wire-measurement	M
No specific	

Mating face color ²⁾	
Grey	0
Black	1

¹⁾ DC connectors always contains temperature sensors.

²⁾ Standard articles of CCS 2 connectors in handlebar design are with black mating face.

Accessories for charging cables



Specific

CHARX T2 CCS - PARK - E12 - SW - D6,5MM – R

- MF - M4X10 - BIT - CT

Product type of accessories	
Charging connector holder ("parking position")	PARK
Carrier bag for charging cables	BAG
Label according to DIN EN 17186	LABEL
Mating face for a repair kit	MF
Mating face for a repair kit including contacts	MFC
Mating face for a repair kit including liquid cooled contacts	MFLC
Passive Cooling Unit	PCU
Active Cooling Unit	ACU
Quick connector	QC
Quick connector end piece	QCEP
Grip for more easy cable handling	GRIP
Fan for cooling down a panel feed through	FAN
Protective cap	PROTECTIVE-CAP

Description for label	
Printed "B"	B
Printed "C"	C
Printed "K"	K
Printed "L"	L

Label	
With PxC label	P
Blank label area	B
Without label area	W
Non	

Item type code – PHOENIX CONTACT CHARX – connect

Accessories for charging cables



Product

Specific

EV T2 CCS - PARK - E12 - SW - D6,5MM - R

Charging standard		Charging type	
For Type 1	T1	For AC	AC
For Type 2	T2	For DC	DC
For GB/T	GB	For CCS	CCS
No Standard		For HPC	HPC
		No type	

- MF
- PCU

Type of accessories	
Charging connector holder ("parking position")	PARK
Carrier bag for charging cables	BAG
Label according to DIN EN 17186	LABEL
Mating face for a repair kit	MF
Passive Cooling Unit	PCU
Quick connector	QC
Grip for an easier cable handling	GRIP
Emergency release tool	UNLOCK-TOOL

Specific for PARK	
With 12 V E-Lock	E12
With 24 V E-Lock	E24
With integrated switch (normally close)	SW
With integrated switch (normally open)	SWC
Hole for M6 screws (6,5 mm diameter)	D6,5MM
Mounting whole for hexagon head screw (reinforcement)	R

Specific for LABEL	
Printed "B"	B
Printed "C"	C
Printed "K"	K
Printed "L"	L

Specific for GRIP	
Diameter of cable for the separate GRIP	D35,7MM
Specific for MF	
With M4X10 screws	M4X10
With M4X45 screws	M4X45
With bit	BIT
With bit and contacts	BIT-C
With bit and contacts including temperature sensors	BIT-CTS

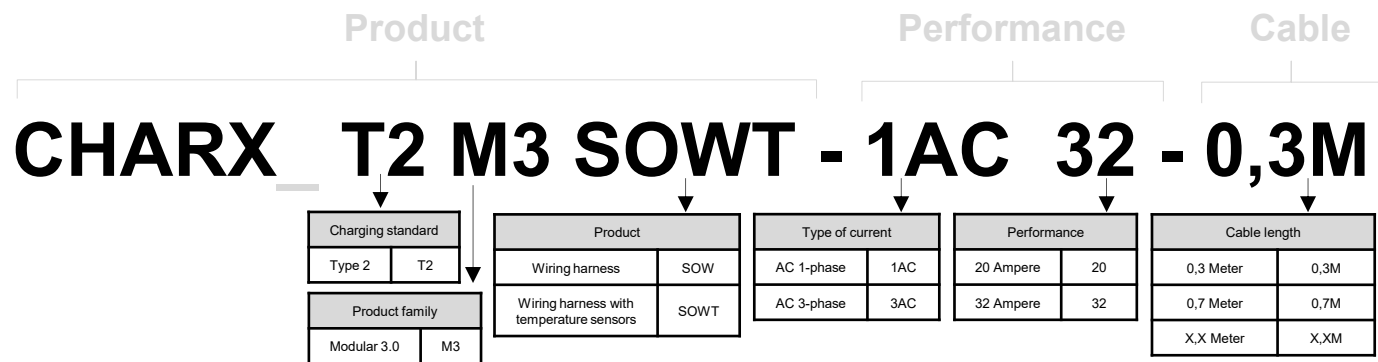
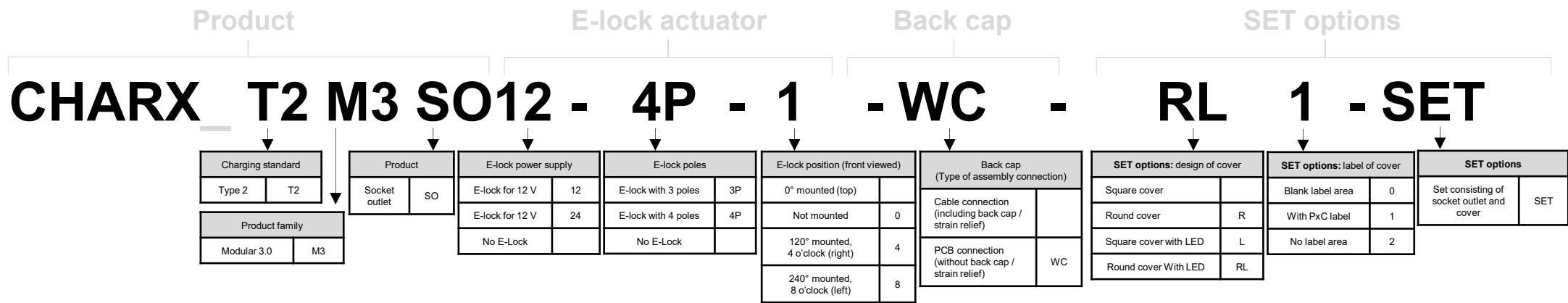
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Branding	
Without PxC branding	0 (WL)
With PxC branding	1 (PC)
No specific	

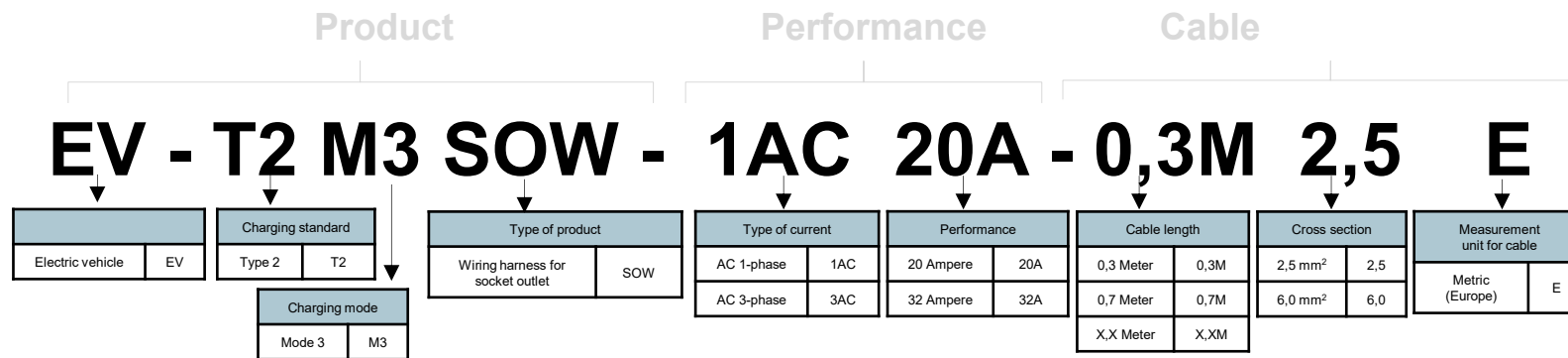
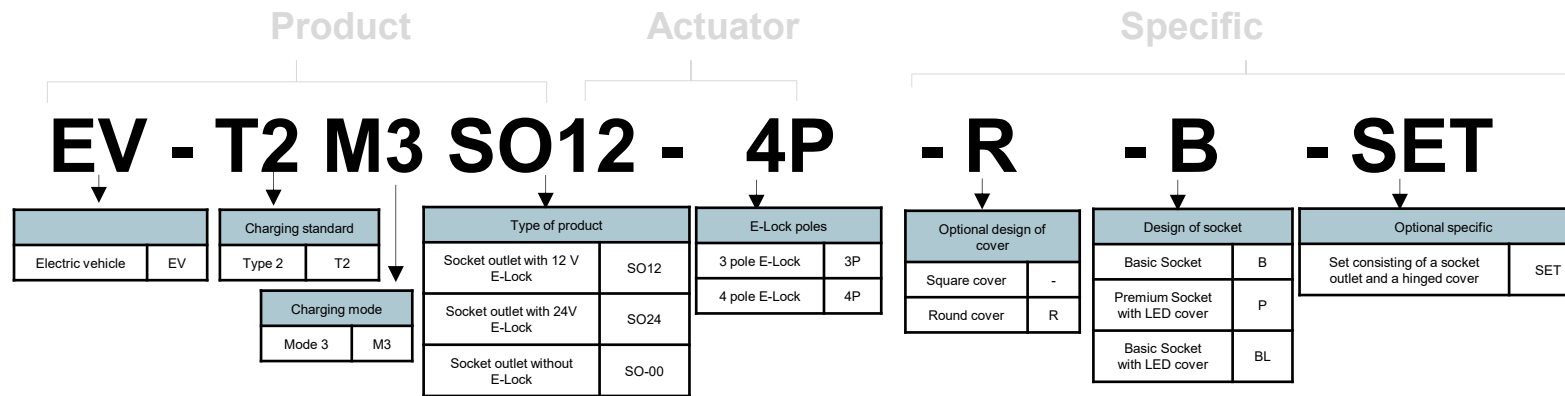
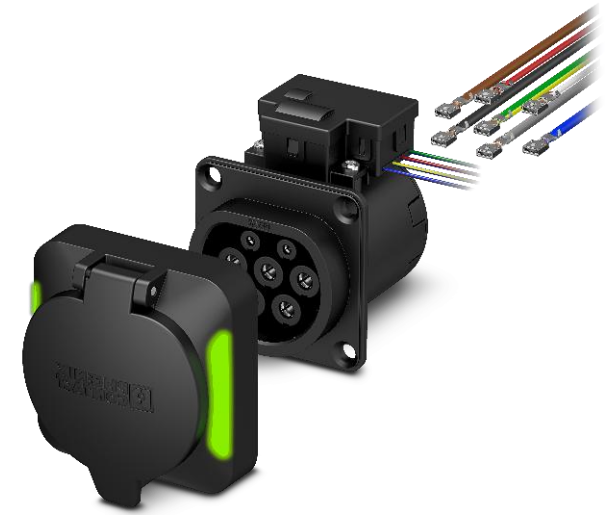
Design	
Design Line 0	0
Design Line 1	1
Design Line 2	2
Design Line 3	3
No specific	

Item type code – PHOENIX CONTACT CHARX – connect

Infrastructure charging sockets 3.0



Item type code – PHOENIX CONTACT CHARX – connect Infrastructure charging sockets 2.0



Item type code – PHOENIX CONTACT CHARX – connect universal

Vehicle charging inlets



Product

CHARX

Product family	
CHARX connect universal	
CHARX connect advanced	A
CHARX connect commercial	M

T2

Charging standard	
Type 1	T1
Type 2	T2
GB/T	GB
NACS	NA

12

Locking actuator	
12 V E-Lock	12
24 V E-Lock	24
non	

Product	
Vehicle inlet	I
Vehicle inlet production in China	HI
Vehicle inlet for modes 2+3+4	HBI
Vehicle inlet for modes 2+3	HCI
Vehicle inlet for modes 4	H4I

Performance

1AC20

AC charging performance	
20 AC 1 phase	1AC20
20 AC 3 phase	3AC20
32 AC 1 phase	1AC32
32 AC 3 phase	3AC32
48 AC 1 phase	1AC48
80 AC 1 phase	1AC80

DC125

DC charging performance	
125 A DC	DC125
200 A DC	DC200
250 A DC	DC250
350 A DC	DC350
375 A DC	DC375

Wire

2,0 M

Cable length in meter	
2,0 Meter	2,0
2,5 Meter	2,5
3,0 Meter	3,0
4,0 Meter	4,0
4,5 Meter	4,5
5,0 Meter	5,0
No cable	N

Cable type	
Type M	M
Type C	C

Specific

2

Actuator mounted	
Not mounted	0
0° mounted (top)	1
90° mounted (right)	2
180° mounted (bottom)	5
270° mounted (left)	6

R

AC/DC cable exit direction (based on front view)	
Right	R
Left	L
Straight	S
No cable	N
Irrelevant	

CN

Production location	
Production in China	CN
Production in Europe	

If inlets with wiring harness

Definition with 90° mounted (right) actuator, straight cable exit, cable lugs at DC+, DC-, PE, HVA 630 at AC	
LV cables with CINCH connector, 95 mm² DC contacts	WH1
LV cables with two Econoseal connectors, 95 mm² DC contacts	WH2
LV cables with CINCH connector, 70 mm² DC contacts	WH3
LV cables with CINCH connector, 120 mm² DC contacts	WH4

PHOENIX CONTACT

INSPIRING INNOVATIONS

Item type code – PHOENIX CONTACT CHARX – connect universal

Vehicle charging inlets



Product				Performance				Wire		Specific							
EV - T2 GB IE12 - 1ACDC 20A 125A - 2,0M										1							
Electric vehicle		EV		Charging standard		Type of vehicle inlet		Type of current		Performance AC		Performance DC		Cable length		Actuator mounted	
		Type 1	T1	Vehicle inlet	I	AC 1-phase	1AC	20 Ampere	20A	125 Ampere	125A	2,0 Meter	2,0M	Not mounted	0		
		Type 2	T2	Inlet e-lock 12 V	IE12	AC 3-phase	3AC	32 Ampere	32A	200 Ampere	200A	3,0 Meter	3,0M	0° mounted (top)	1		
		GB/T	GB	Inlet e-lock 24 V	IE24	DC	DC	80 Ampere	80A	250 Ampere	250A	No cable	N	90° mounted (right)	2		
								AC 1-phase + DC		1ACDC				270° mounted (left)		6	
								AC 3-phase + DC		3ACDC							
				Charging mode Gen 1		Charging mode Gen 2/3											
		Mode 4	M4	Mode 4	G4												
		All Modes	MA	All Modes	GA												
		Modes 2+3+4	MB	Modes 2+3+4	GB												
		Modes 2+3	MC	Modes 2+3	GC												
		Modes 1+2+3	MD	Modes 1+2+3	GD												
		Modes 3+4	ME	Modes 3+4	GE												
		Level 2	L2	Level 2	G2												

Accessories for infrastructure charging sockets & vehicle charging inlets



Item type code – PHOENIX CONTACT CHARX – connect

Accessories for infrastructure charging sockets & vehicle charging inlets



Product

EV T2 SC - EM
M3SM-E-LOCK

Charging standard	
For Type 1	T1
For Type 2	T2
For GB/T	GB
No Standard	

Type of accessories	
Socket outlet hinged cover square	SOC
Socket outlet hinged cover round	SOCR
Socket outlet self-closing hinged cover	SC
Socket outlet self-opening hinged cover	SCO
Socket outlet self-closing hinged cover for "easy mount"	SC-EM
Socket outlet self-closing hinged cover for "easy mount"	SC-EMF
Socket outlet shutter	SOS
Socket outlet cap (with strain relief and touch protection)	M3SO-CAP
Socket outlet cap remover	M3SO-CAP-REMOVER
Socket outlet panel mounting frame	SOF
Socket outlet mounting frame	SF
Socket outlet mounting frame for "easy mount cover"	SF-EM
4 pole locking actuator Gen 1	M3S-E-LOCK
4 pole locking actuator Gen 2	M3SM-E-LOCK
3 pole locking actuator	M3SL-E-LOCK
Label according to DIN EN 17186	LABEL-C-SO
Dust cover set for vehicle charging inlets	MBI-DUST COVER SET

Specific

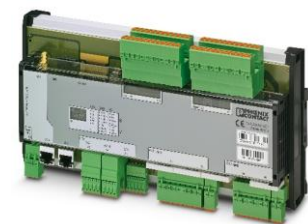
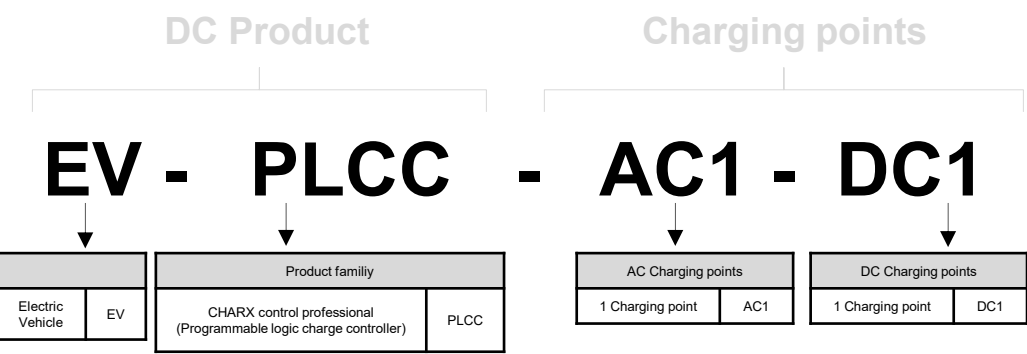
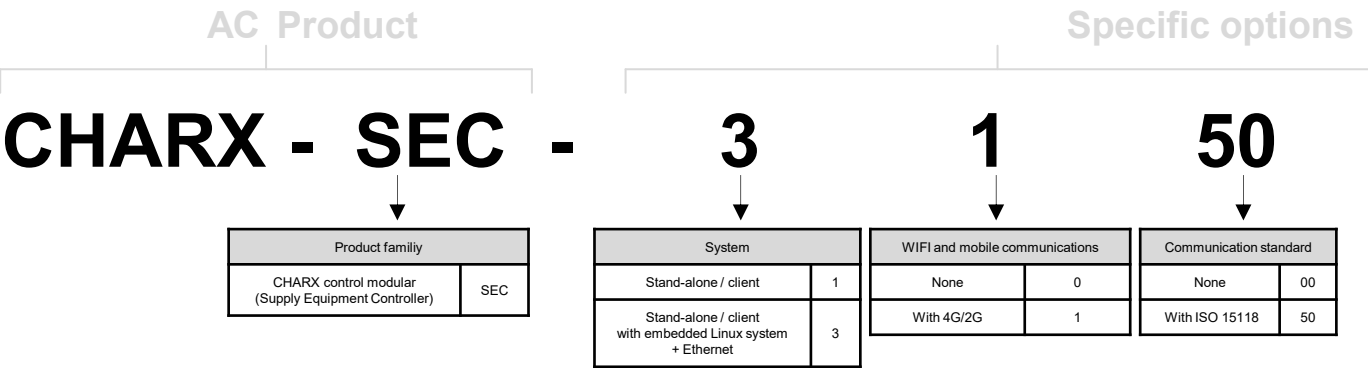
- B - WL
- 12V

Specific for all covers	
With LED (Premium)	P
Without LED (Basic)	B
Premium design with common cathode (control design)	P / PC
Premium design with common anode (control design)	PA
Without PxC branding / labeling	WL
C-mark according to DIN EN 17186	C
With sticker field	STICK
Hole for M6 screws (6,5 mm diameter)	D6,5MM

Specific for E-LOCK	
With 12 V E-Lock	12V
With 24 V E-Lock	24V

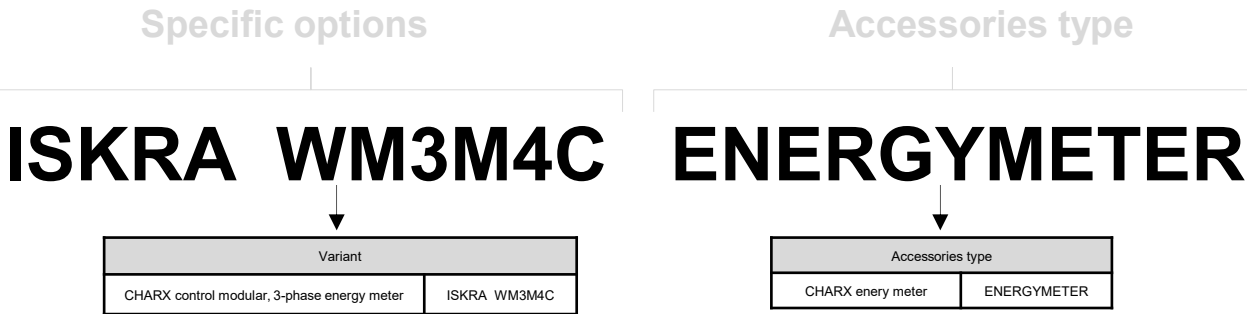
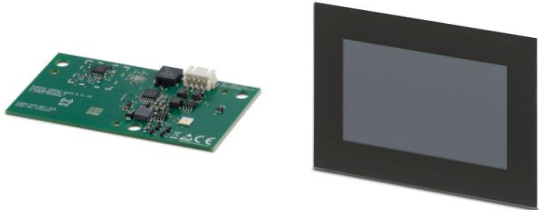
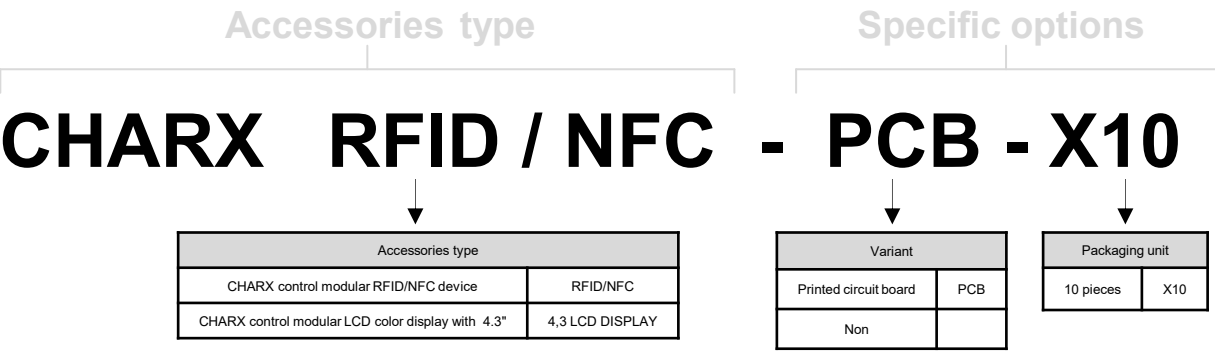
Item type code – PHOENIX CONTACT CHARX – control

Charging controllers



Item type code – PHOENIX CONTACT CHARX – control

Accessories for charging controllers



Item type code – PHOENIX CONTACT CHARX – control

Accessories for charging controllers

RFID reader

EV - RFID - ELT - PCB - X10

Electric vehicle	EV
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Radio Frequency Identification	RFID
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Printed circuit board	PCB
IP65 housing	IP65

Packaging unit	
10 pieces	X10



RCM

EV - RCM - 6DC - WAT - X10

Electric vehicle	EV
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Residual current monitoring	RCM
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6mA DC / 30mA AC detection	6DC
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Packaging unit	
10 pieces	X10



SD card

SD - FLASH - 2GB - EV-EMOB

Secure Digital Memory Card	SD
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Electrically Erasable Programmable Read Only Memory	FLASH
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2GB Memory Space	2GB
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Electric Vehicle E-Mobility	EV-MOB
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