



EU Standard EV Charging Wallbox BENELUX Series





- · 4G smart remote control
- High-power fast charging
- Multiple charging modes
- · OCPP communication
- · Extensible large screen
- · Automatic overheating recognition during charging

Specifications		
Product model	D2E-B3P16A	
Product power	3.6/11KW	
Working current	16A	
Working voltage	230V single-phase /400V three-phase	
Installation mode	Integrated gun and pile design, with a wall mount bracket provided.	
Working altitude	<2000m	
Working frequency	50HZ/60HZ	
Cable length	7m	
Reservation function	2H/4H/6H/8H	
Charging method	Plug-and-charge	
Operating temperature	-30℃ ~50℃	
Operating humidity	5%~95% RH	
Display interface	Vertical light bar language	
Communication method	Standalone version	
Product certification	CE & TUV	
IP rating	IP66	
Protection function	Protection against overvoltage, undervoltage, overcurrent, leakage, overheating, and surge	
Electric leakage protection	Type B 30mA AC & 6mA DC	
Dual temperature control protection	Above 85℃, automatic power off after full charge	
Operation mode	Touch buttons provided for device-side reservation	
Installation mode	Integrated gun and pile design, with a wall mount bracket provided.	
Accessories	Gun holder, carrying case, microfiber cloth for cleaning, and pouch for adapter	

EU Standard EV Charging Wallbox



- · 4G, Wifi, Bluetooth connectable
- · OCPP1.6J
- · 22KW high-power charging
- · Can be connected to PV charging & storage system, and smart electric meter



	Power & current	22KW compatible with 11KW+7KW	
Product information		220-240Vac±10% (operable at 120V)	
	Voltage & frequency	50 / 60 Hz	
	Charging standard	IEC 62955; IEC61851-1Ed3; IEC 60068-2-11:2021 (without power for 96h at storage state);	
	Protection function	Basic protections: overcurrent, overvoltage, undervoltage, overtemperature, leakage,grounding, lightning, short-circuit protections	
	Protection standard	AC30mA+DC6mA	
	Communication protocols	OCPP1.6J+	
User	Connection mode	WIFI Bluetooth 4G Ethernet	
interaction	Power feed method/ unlocking method	Plug-and-charge, APP+RFID	
Interaction		APP+ light language/screen (with screen + without screen)	
	RFID function	Supported	
	APP function	Supports APP	
		Remote start - stop (OTA upgrade)	
Product features		Charging completion reminder and notification for failed gun insertion in reservation mode	
		Calculate the amount of electricity for each charge	
		Monthly charging data and comparisons (bar chart)	
	Extended function	PV charging and storage + smart electric meter can be integrated in the future	
	IP rating	IP66	
	Operating altitude, temperature, and humidity	Altitude <2000m; temperature -30° C~+50° C; humidity 5 %~95%	
Product characteristics	Storage temperature	-40°C ~ +60°C	
	Installation mode	Wall mount/pole mount (target: installer can complete the installation within 20 minutes after training, installation video available)	
	Cable length	5 m	
Product certification	Certifications	CB, TUV-CE, RoHS, REACH, IP, IK10	

North American Standard EV Charging Wallbox



- · 4G, Wifi, Bluetooth connectable
- · OCPP1.6J
- · Extendible up to 80A charging
- · Optional NACS gun cable
- · Can be connected to PV charging & storage system, and smart electric meter



	Power & current	22KW compatible with 11KW+7KW	
Product information	Voltage & frequency	220-240Vac±10% (operable at 120V)	
		50 / 60 Hz	
	Charging standard	IEC 62955; IEC61851-1Ed3; IEC 60068-2-11:2021 (without power for 96h at storage state);	
	Protection function	Basic protections: overcurrent, overvoltage, undervoltage, overtemperature, leakage, grounding, lightning, short-circuit protections	
	Protection standard	AC30mA+DC6mA	
	Communication protocols	OCPP1.6J+	
User	Connection mode	WIFI Bluetooth 4G Ethernet	
interaction	Power feed method/ unlocking method	Plug-and-charge, APP+RFID	
	Interaction	APP+ light language/screen (with screen + without screen)	
	RFID function	Supported	
	APP function	Supports APP	
		Remote start - stop (OTA upgrade)	
Product features		Charging completion reminder and notification for failed gun insertion in reservation mode	
		Calculate the amount of electricity for each charge	
		Monthly charging data and comparisons (bar chart)	
	Extended function	PV charging and storage + smart electric meter can be integrated in the future	
	IP rating	IP66	
Product characteristics	Operating altitude, temperature, and humidity	Altitude <2000m; temperature -30° C~+50° C; humidity 5 %~95%	
	Storage temperature	-40°C ~ +60°C	
	Installation mode	Wall mount/pole mount (target: installer can complete the installation within 20 minutes after training, installation video available)	
	Cable length	5m	
Product certification	Certifications	CB, TUV-CE, RoHS, REACH, IP, IK10	

CE 7/22kW

AC Charger (residential)





Application Scenario

Residence community, hotel, commercial office building. Home use or longtime charging scenario for Type2 vehicles.

Highlight

·Innovativeness

Minimal size, streamline design.

- ·Flexible option
- ·Customized APP operation/RFID authenti- cat-ion/plug & play.
- ·Color for option.
- ·Wall/floor mounting installation.
- ·Intelligent control
- ·Wireless communication(WiFi/Bluetooth). Smart charge & schedule charge by App.
- ·Secure and safe
- ·6mA DC residual current protection. Anti-welding protection.

Model TCDZ 1P/32A EU-R-H TCDZ 3P/32A EU-R-H Powersupply 1P+N+PE 3P+N+PE Rated current 32A 32A Frequency 50/60Hz 50/60Hz Outputvoltage 230Vac 400Vac Rated power 7kW 22kW Maxcurrent 32A 32A Chargeconnector Type2CaseC Cable length 5m LED indicator White/Green/Blue/Red Start mode RFID/App Emergencystop Yes Wifi Yes Bluetooth Yes 4G Ne O C PP No Energy meter No RC D 30 m A C & 6 m A D C Protection level PF65x IKO8 Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault protection, Integrated surge protection Certification C E IEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, Technology Technical standard SS EN IEC 61851-1. Work				
Rated voltage 230 Vac ± 10% 400 Vac ± 10% Rated current 32A 32A Frequency 50/60Hz 50/60Hz Output voltage 230 Vac 400 Vac Rated power 7k W 22k W Max current 32A 32A Charge connector Type2 Case C Cable length 5m LED indicator White/Green/Blue/Red Startmode RFID/App Emergencystop Yes Wifi Yes Blueboth Yes 4G No 0 C P P No Energy meter No R C D 30 m A C & 6 m A D C Protection level P65 & IKO8 Over-current, Over-topage, Groundfault, Leakage protection, Contactor adhesionfault Crification C R IEctrical protection C R Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault Crtification C R Catton C R Work humidity	Model	TCDZ 1P/32A EU-R-H	TCDZ 3P/32A EU-R-H	
Rated current 32A 32A 50/60Hz 50/60H	Powersupply	1P+N+PE	3P+N+PE	
Frequency	Ratedvoltage	230Vac ± 10%	400Vac ± 10%	
Outputvoltage 230 Vac 400 Vac Rated power 7 k W 22 k W Maxcurrent 32 A 32 A Charge connector Type 2 Case C Cable length 5 m LED indicator White/Green/Blue/Red Start mode RFID/App Emergencystop Yes Wifi Yes Bluetooth Yes 4G No 0 C P P No Energy meter No R C D 30 m A A C & 6 m A D C Protection level IP65 & IK08 Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault Electrical protection C Technical standard ESEN IEC/EN61851-21. Work humidity 5 % R H ~ 9 5 % R H Work altitude \$\lequiv 2000 m Work tumperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 3 6 m m * D 97 m m Netweight 4.9kg 6.2kg	Rated current	32A	32 A	
Rated power 7k W 22k W Maxcurrent 32A 32A Chargeconnector Type2Case C Cable length 5m LEDindicator White/Green/Blue/Red Startmode RFID/App Emergencystop Yes Wiff Yes Bluetooth Yes 4G No O C PP No Energy meter No R C D 30 m A A C & 6 m A D C Protection level IP65& IKO8 Over-current, Over-temperature, Over-voltage, Froundfault, Leakage protection, Contactor adhesionfault protection, Integrated surgeprotection Certification C E Technical standard EIEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC 61851-1. Work humidity 5% R H ~ 95 % R H Work altitude ≤ 2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg 6.2kg External package </td <td>Frequency</td> <td>50/60Hz</td> <td>50/60Hz</td>	Frequency	50/60Hz	50/60Hz	
Maxcurrent 32A 32A Chargeconnector Type2Case C Cable length 5 m LEDindicator White/Green/Blue/Red Startmode RFID/App Emergencystop Yes Wiff Yes Bluetooth Yes 4 G No O C PP No Energy meter No R C D 30 m A A C & 6 m A D C Protection level IP65 k IK08 Over-current, Over-temperature, Over-voltage, Over-voltage, Groundfault, Leakage protection, Contactor adhesionfault protection, Integrated surge-protection Certification C E Technical standard EIEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC 61851-1 Work humidity 5% R H ~ 95 % R H Work altitude ≤ 2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton <td>Outputvoltage</td> <td>230Vac</td> <td>400Vac</td>	Outputvoltage	230Vac	400Vac	
Chargeconnector Type2 Case C Cable length 5 m LED indicator White/Green/Blue/Red Startmode RFID/App Emergencystop Yes Wiff Yes Bluetooth Yes 4 G No O C P P No Energy meter No R C D 30 m A A C & 6 m A D C Protection level IP65 & IK08 Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault protection, Integrated surgeprotection Certification C E Technical standard EIEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS E N IEC 61851-1. BS E N IEC 61851-1. Work humidity 5 % R H ~ 9 5 % R H Work altitude ≤ 2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 24 7 m m * H 3 2 6 m m * D 9 7 m m Netweight 4.9kg 6.2kg External package Carton	Rated power	7 k W	22kW	
Cable length 5 m LED indicator White/Green/Blue/Red Start mode RFID/App Emergency stop Yes Wiff Yes Bluetooth Yes 4 G No O C P P No Energy meter No R C D 30 m A A C & 6 m A D C Protection level IP65 & IK08 Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault protection, Integrated surge protection Cetification C E Technical standard EIC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS E N IEC 61851-1. Work humidity 5 % R H ~ 9 5 % R H Work altitude ≤ 2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton Package dimension W 485 m m * H 360 m m * D 265 m m	Maxcurrent	32A	32 A	
LED indicator	Chargeconnector	Type2	CaseC	
Startmode RFID/App Emergencystop Yes Wiff Yes Bluetooth Yes 4 G No O C P P No Energy meter No R C D 30 m A C & 6 m A D C Protection level IP65& IK08 Electrical protection Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault protection, Integrated surgeprotection Certification C E Technical standard BS EN IEC 61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC 61851-1. Work humidity 5 % R H ~ 9 5 % R H Work altitude ≤ 2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton Package dimension W 4485 m m * H 360 m m * D 265 m m	Cable length	Į.	5 m	
Emergencystop Yes Wifi Yes Bluetooth Yes 4 G No O C P P No Energy meter No R C D 30 m A A C & 6 m A D C Protection level IP65 & IKO8 Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault protection, Integrated surge protection Certification C E Technical standard IEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC61851-1. Work humidity 5 % R H ~ 9 5 % R H Work altitude ≤ 2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 3 26 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton Package dimension W 485 m m * H 3 60 m m * D 265 m m	LED indicator	White/Gree	n/Blue/Red	
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Bluetooth Yes 4G No OCPP No Energy meter RCD 30 m A A C & 6 m A D C Protection level Protection level Electrical protection Certification CE Technical standard BEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC 61851-1. Work humidity 5% R H ~ 95% R H Work altitude Work altitude Work temperature -30 ° Cto+50 ° C Installation Netweight 4.9kg Carton Package dimension W 485 m m * H 360 m m * D 265 m m	Emergencystop	Y	?es	
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OCPP No Energy meter No RCD 30 m A A C & 6 m A D C Protection level IP65& IK08 Certification Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault protection, Integrated surgeprotection Certification CE Technical standard IEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC 61851-1. Work humidity 5%R H ~ 95 %R H Work altitude ≤ 2000 m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 2 47 m m * H 3 26 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton Package dimension W 4 8 5 m m * H 3 60 m m * D 265 m m	Bluetooth	Yes		
Energy meter No R C D 30 m A A C & 6 m A D C Protection level IP65 & IKO8 Electrical protection Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault protection, Integrated surgeprotection Certification C E Technical standard IEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC 61851-1. Work humidity 5 % R H ~ 9 5 % R H Work altitude ≤ 2000 m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton Packagedimension W 485 m m * H 360 m m * D 265 m m	4 G	N ₀		
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Protection level IP65 & IK08 Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesion fault protection, Integrated surge protection Certification CE IEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, Technical standard BS EN IEC 61851-1. Work humidity 5%R H ~ 95%R H Work altitude ≤2000m Work temperature -30°Cto+50°C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton Package dimension W 485 m m * H 360 m m * D 265 m m	Energymeter			
Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor protection, Integrated surgeprotection adhesionfault adhesionfault protection Certification C E Technical standard IEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC 61851-1. Work humidity 5 % R H ~ 9 5 % R H Work altitude ≤ 2000 m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 3 26 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton Package dimension W 485 m m * H 360 m m * D 265 m m	RCD			
Electrical protection Under-voltage, Groundfault, Leakage protection, Contactor protection, Integrated surge protection adhesion fault protection, Contactor protection Certification C E IEC/EN61851-1, IEC/EN61851-21-2, IEC/EN62955, IEC/EN61008, BS EN IEC61851-1. Work humidity 5%R H ~ 95%R H Work altitude ≤ 2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg External package Carton Package dimension W 485 m m * H 360 m m * D 265 m m	Protection level	IP65	& IK08	
IEC/EN61851-1,IEC/EN61851-21-2,IEC/EN62955,IEC/EN61008, BS EN IEC 61851-1. Work humidity 5%R H ~ 95%R H Work altitude ≤ 2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 3 26 m m * D 97 m m Netweight 4.9kg External package Carton Package dimension W 485 m m * H 360 m m * D 265 m m	Electrical protection	Under-voltage, Groundfault, Leakage protection, Contactor adhesionfault		
Technical standard BS EN IEC 61851-1. Work humidity 5%R H~95%R H Work altitude ≤2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247mm*H 326mm*D 97mm Netweight 4.9kg 6.2kg External package Carton Package dimension W 485mm*H 360mm*D 265mm	Certification	CE		
Work altitude ≤2000m Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg External package Carton Package dimension W 485 m m * H 360 m m * D 265 m m	Technicalstandard			
Work temperature -30 ° Cto+50 ° C Installation Wall-mounting, Pedestal-mounting Product dimension W247mm*H326mm*D97mm Netweight 4.9kg 6.2kg External package Carton Package dimension W485mm*H360mm*D265mm	Work humidity	5%RH~95%RH		
Installation Wall-mounting, Pedestal-mounting Product dimension W 247 m m * H 326 m m * D 97 m m Netweight 4.9kg 6.2kg External package Carton Package dimension W 485 m m * H 360 m m * D 265 m m	Work altitude	≤2000m		
Product dimension W 247mm*H 326mm*D 97mm Netweight 4.9kg 6.2kg External package Carton Package dimension W 485mm*H 360mm*D 265mm	Worktemperature	-30 ° Cto+50 ° C		
Netweight 4.9kg 6.2kg External package Carton Package dimension W485mm*H360mm*D265mm	Installation			
External package Carton Package dimension W485mm*H360mm*D265mm	Product dimension			
Packagedimension W485mm*H360mm*D265mm	Netweight	4.9kg	6.2kg	
	Externalpackage	Car	ton	
Grossweight 5.9kg 7.2kg	Packagedimension	W485mm*H360mm*D265mm		
	Grossweight	5.9kg	7.2kg	

CE 7/22kW

AC Charger (commercial)





Application Scenario

Residence community, hotel, real estate,
office building. Commercial operation scenario for
Type2 vehicles.

Highlight

- ·Innovativeness
- ·Avant-garde shape, exquisite appearance.
- ·Flexible option
- ·Color for option.
- ·Wall/floor mounting installation.
- ·Intelligent control
- ·Wireless communication(WiFi/4G/Blue- tooth). ·
- ·OCPP protocol with BMS.
- ·Secure and safe
- ·30 mA AC & 6mA DC residual current protection. ·
- ·Anti-welding protection.

Model	TCDZ 1P/32A EU-RG-C	TCDZ 3P/32A EU-RG-C	
Powersupply	1P+N+PE	3P+N+PE	
Ratedvoltage	230Vac ± 10%	400Vac ± 10%	
Rated current	32A	32A	
Frequency	50/60Hz	50/60Hz	
Outputvoltage	230Vac	400Vac	
Rated power	7 k W	22kW	
Max current	32A	32A	
Chargeconnector	Type2	CaseC	
Cable length	5	5 m	
LED indicator	White/Gree	n/Blue/Red	
Startmode	RFID/App		
Emergencystop	Yes		
Wifi	Yes		
Bluetooth	Yes		
4 G	Yes		
OCPP	OCPP 1.6J		
Energymeter	No		
RCD	30mAAC & 6mADC		
Protection level	IP65& IK08		
Electrical protection	Over-current, Over-temperature, Over-voltage, Under-voltage, Groundfault, Leakage protection, Contactor adhesion fault protection, Integrated surge protection		
Certification	CE		
	IEC/EN61851-1,IEC/EN61851-21-2,IEC/EN62955,		
Technicalstandard	andard IEC/EN61008, BSENIEC61851-1.		
Work humidity	5%RH~95%RH		
Workaltitude	≤2000m		
Worktemperature	-30 ° Cto+50 ° C		
Installation	Wall-mounting, Pedestal-mounting		
Product dimension	W247mm*H326mm*D97mm		
Netweight	4.9kg	6.2kg	
External package	Carton		
	W485mm*H360mm*D265mm		
Packagedimension	W485mm*H3	60mm * D 265mm	





Application Scenario

Residence community, hotel, real estate,

office building. Commercial operation scenar- iofor

Type2 vehicles.

Highlight

- ·Innovativeness
- ·Avant-garde shape, exquisite appearance.
- ·Flexible option
- ·Type 2 Case C/ Case B socket for option.
- · Wall/floor mounting installation.
- ·Intelligent control
- ·Wireless communication(WiFi).
- •OCPP protocol with BMS.
- ·MID meter for operation.
- ·Secure and safe
- ·6mA DC residual current protection.
- ·Anti-welding protection.

Model	TCDZ-AC230/070KE3C	TCDZ-AC400/220KE3C
Powersupply	1P+N+PE	3P+N+PE
Ratedvoltage	230Vac ± 15%	400Vac ± 15%
Rated current	32A	32A
Frequency	50/60Hz	
Outputvoltage	230Vac	400Vac
Rated power	7k W	22 k W
Maxcurrent	32A	32A
Chargeconnector	Type2CaseC	
Cablelength	5m	
LEDindicator	Green/Blue/Red	
Startmode	RFID/App	
Emergencystop	No	
Wifi	Yes	
4 G	N ₀	
ОСРР	OCPP1.6J	
Energymeter	Midcertified	
RCD	6 m A D C	
Protection level	IP54/IK10	
Electrical protection	Overcurrent protection, Overvoltage protection, Relay overtemperature protection, etc.	<u>-</u>
Certification	CB	
Technical standard	IEC61851-1, IEC61851-21	
Work humidity	5%RH~95%RH (No condensation)	
Workaltitude	≤2000m	
Worktemperature	-25~50℃	
Installation	Wall-mounting, Floor-mounting	
Productdimension	W360*D150*H650mm	
Netweight	7.8kg 10kg	
External package	Carton	
Packagedimension	W440*D300*H750mm	
Grossweight	11.2kg	12.6kg
Pedestal height	1462mm	
Pedestalnetweight	17kg	
Pedestal packagedimension	W335*D255*H1520mm	
Pedestal grossweight	18.6kg	

DEAN SUPPY CHAIN GROUP

