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BENY Datasheet

1. Product Introduction

BCP-MH-01 is an electric vehicle charging monitoring device independently developed by Beny New Energy. This product has a built-in intelligent balancing algorithm and multiple charging configuration strategies. It can automatically manage multiple EV charger through RS485 communication, providing users with a dynamic load balancing solution for parking lots.

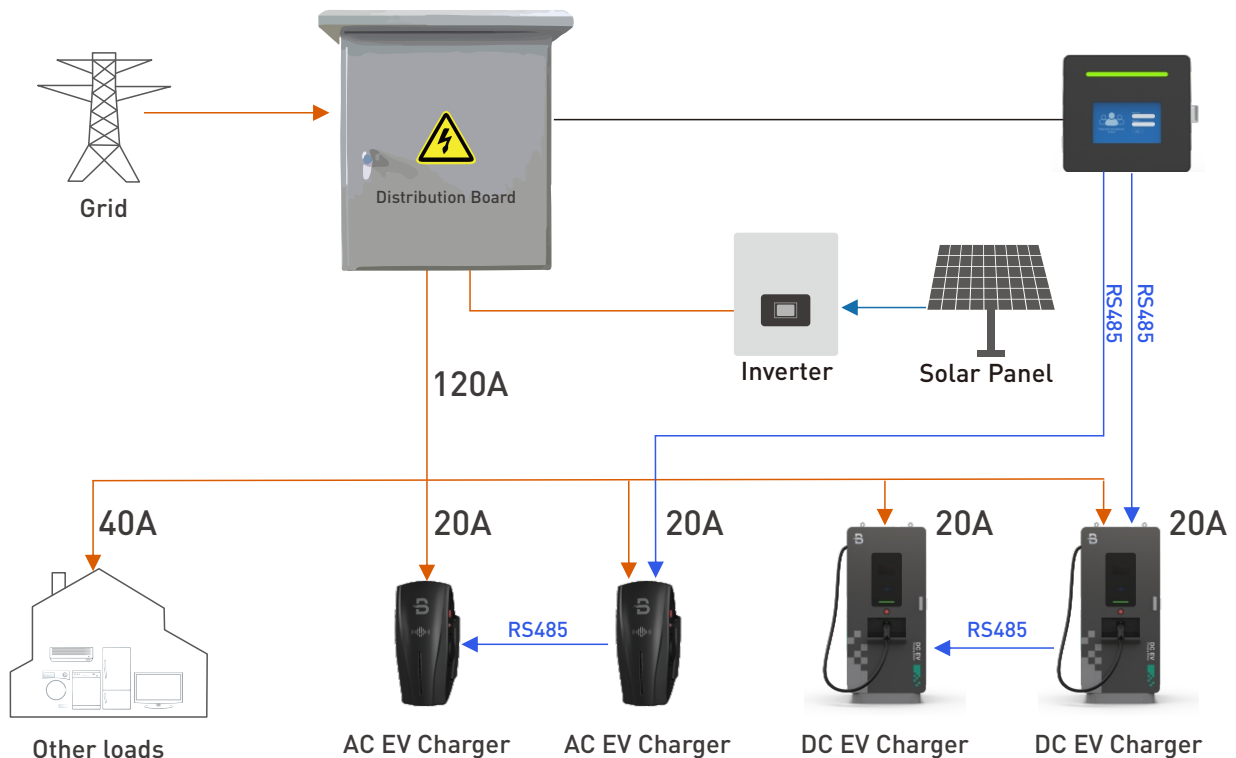
2. Applications

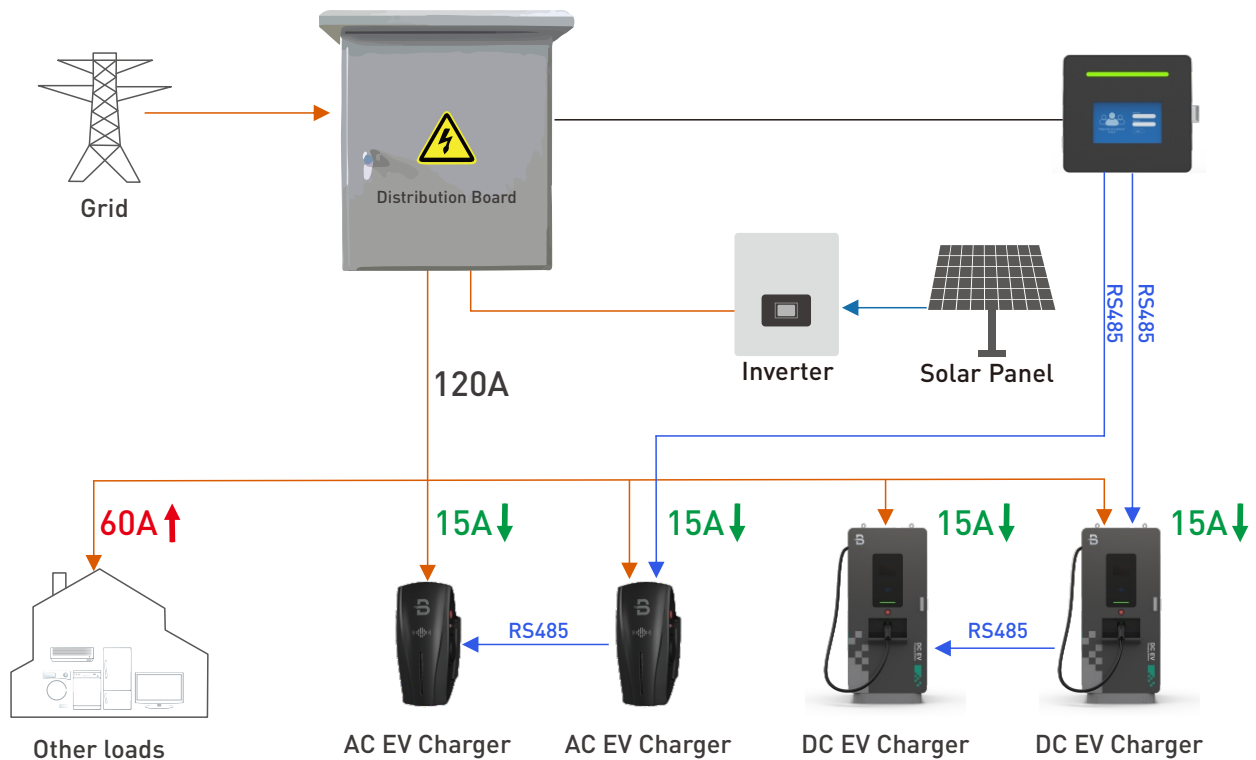
2.1. When there are one or more chargers in a public parking lot/user's home, the load is balanced between the chargers and other loads

The monitoring device BCP-MH-01 adjusts the current of the chargers to keep the current in the circuit within the setting current of the monitoring device.

Take a 100A home distribution box as an example: when the current of other loads rises from 40A to 60A, the monitoring device will reduce the charging current of the charger to keep the current in the circuit within the safe range of 120A.

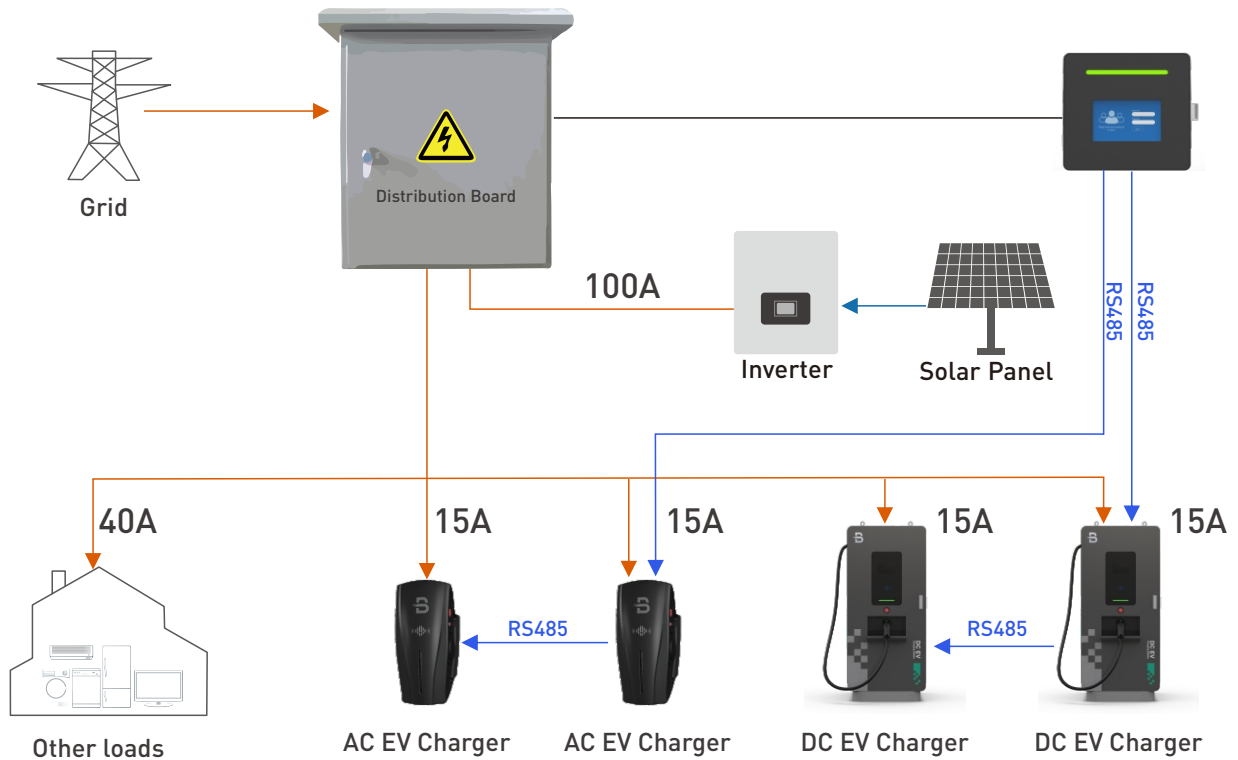
Before:



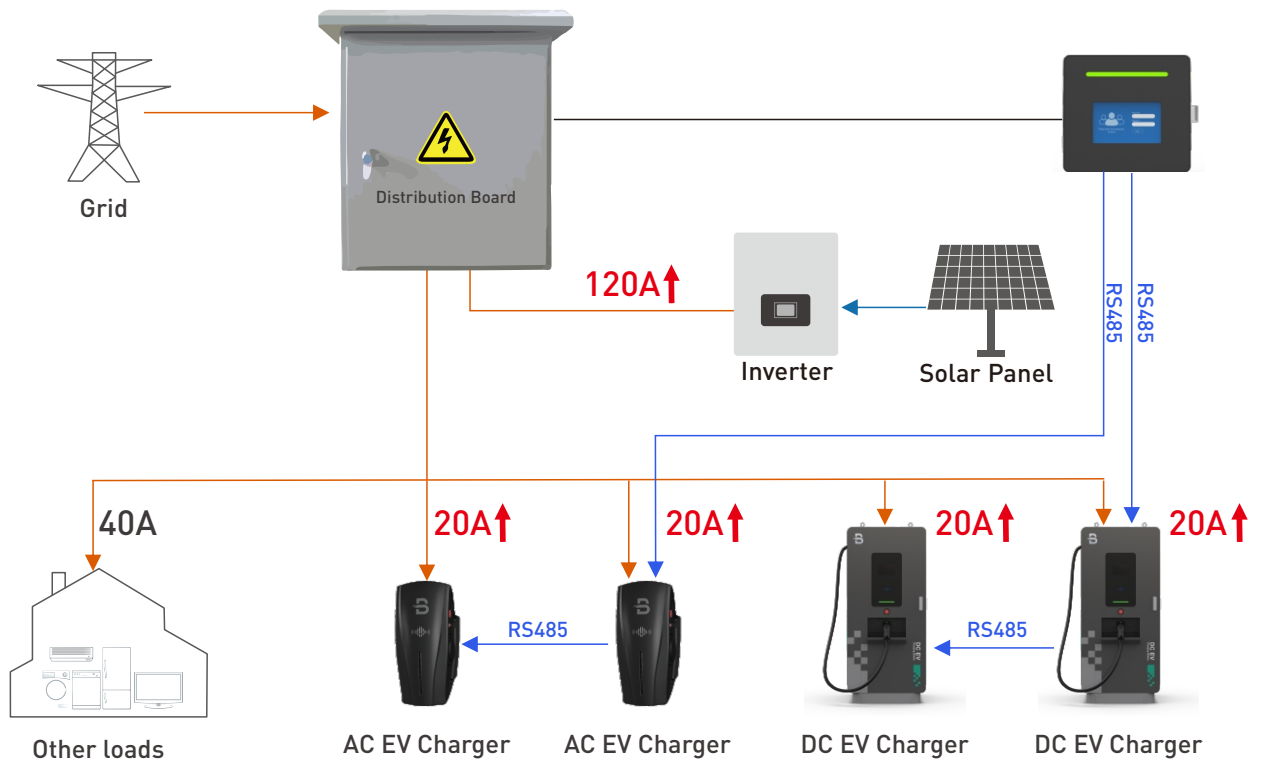
After:**2.2. When there are one or more chargers in a public parking lot/user's home, photovoltaic charging needs to be implemented (Pure PV Mode)**

The monitoring device can detect the flow direction of the main line current through CT, and use photovoltaic power generation as much as possible by adjusting the power consumption of the charger, thereby avoiding the waste caused by unconsumed photovoltaic current entering the power grid and avoiding the use of power grid to generate electricity.

Before:



After:

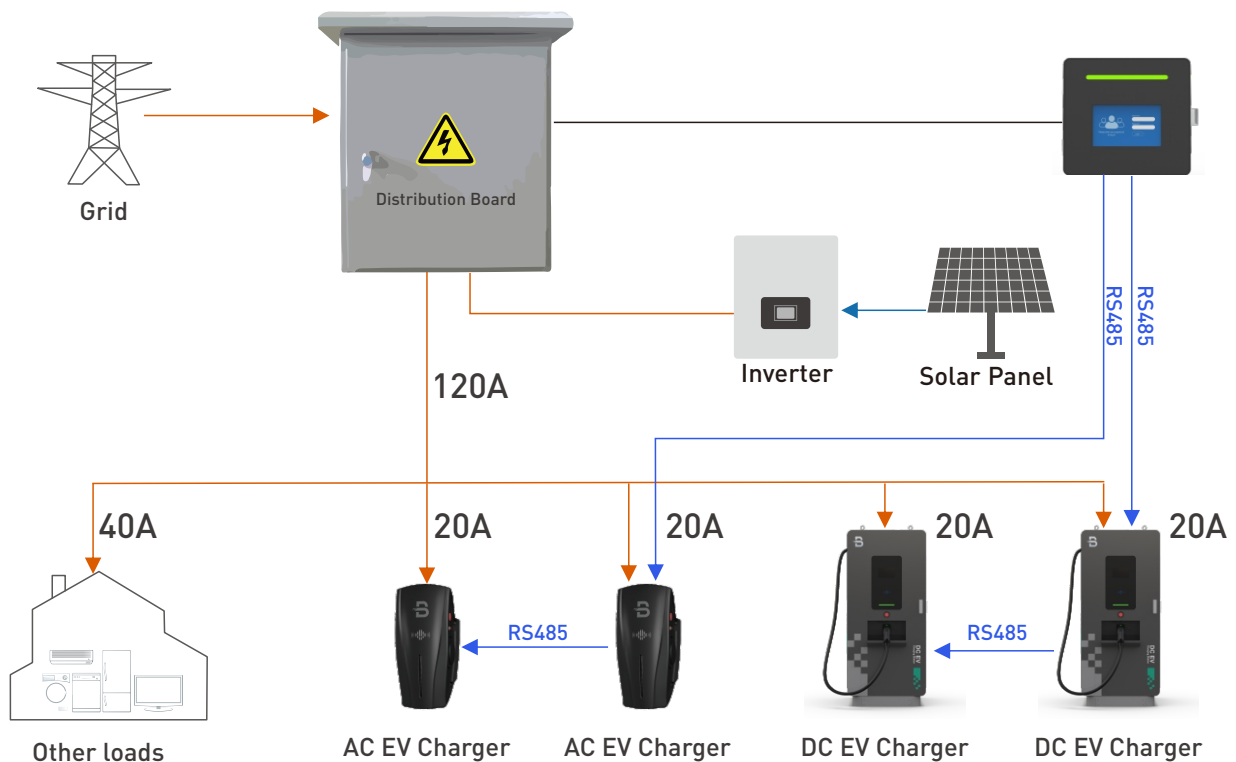


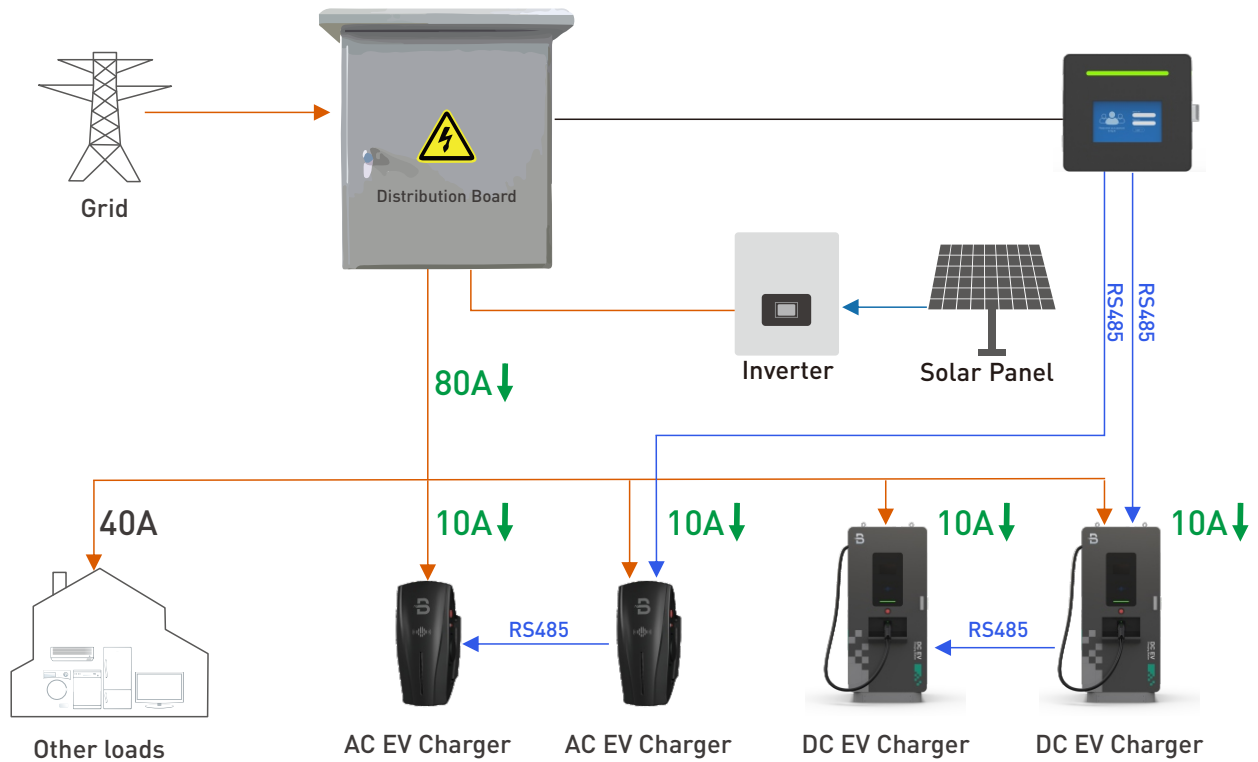
2.3. When users need to avoid charging during periods of high peak time (schedule mode)

When the electricity price in the user's area changes over time, reasonably avoiding or reducing electricity consumption during periods of high electricity prices can effectively reduce electricity expenses, thereby reducing electricity costs.

Example: During off peak time, set the total three-phase current in the circuit to 120A. During periods of high electricity prices, set the total three-phase current in the circuit to 80A.

OFF PEAK:



HIGH PEAK:

It can be seen that during periods of high electricity prices, the charger reduces the charging current. This setting avoids excessive electricity bills due to excessive power consumption by the charger during periods of high electricity prices.

3.Specifications

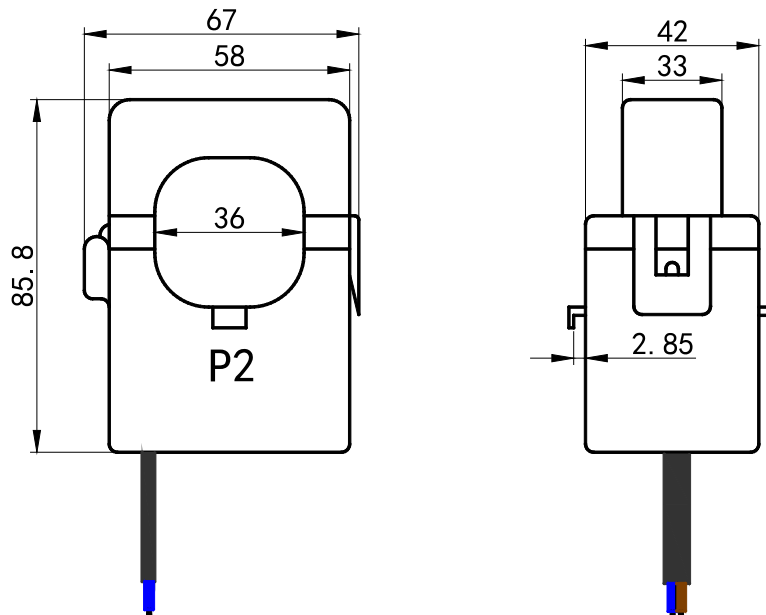
Model	BCP-MH-01
	
Rated operating voltage	AC230V±15%
Communication mode	RS485 bus
Number of RS485 loops	3
Quantity of EV chargers that can be bound	DC EV charger: ≤50 charging connector, AC EV charger: ≤50 charging connector
Maximum communication distance	300m
Operating temperature	-25°C ~55°C
Storage temperature	-30°C ~55°C
Protection Degree	IP65
HMI	LCD touch screen and LED indicator
CT specification options	100A / 300A / 600A /3000A /5000A
Maximum Altitude	<2000m

4.Accessories

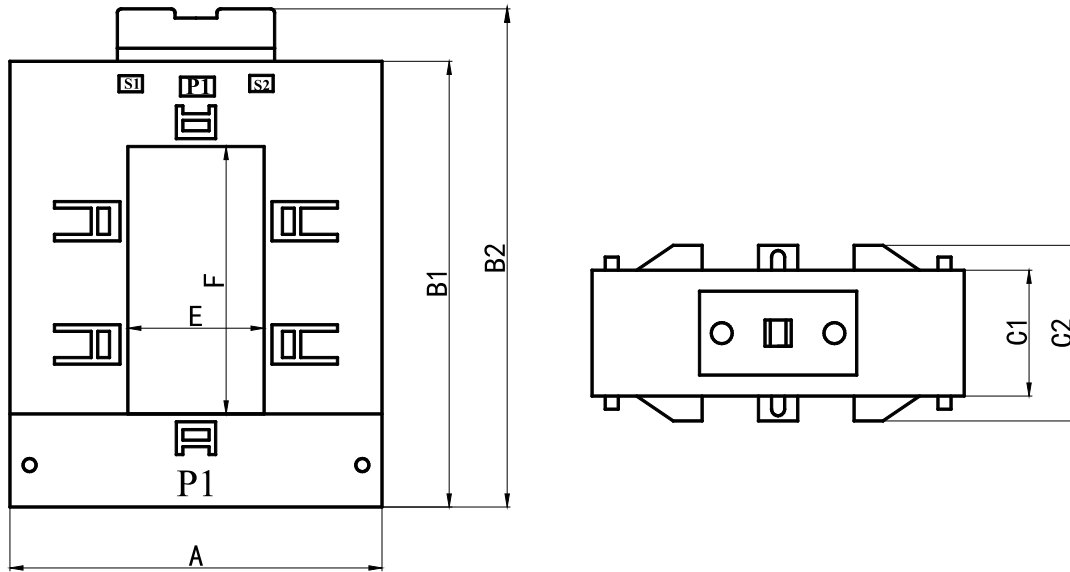
Accessory options			
DLB	wiring position	CT clamp type	Max. Supported Current of Distribution Box(Single-Phase)
unnecessary	≤1m	400A	≤400A
		1500A	≤1500A
		3000A	≤3000A
		5000A	≤5000A
necessary	≤6m	100A	≤100A
		200A	≤200A
		300A	≤300A

5.CT clamp installation dimensions (mm)

100A/200A/300A:



400A/1500A/3000A/5000A:



Electric field current	Overall Dimensions(mm)						
	A	B1	B2	C1	C2	E	F
≤400A	91	92	109.5	40	59	22	32
≤1500A	113	121	138.5	36	55	42	62
≤3000A	142	170	187.5	48	67	52	102
≤5000A	183	237	254.5	52	71	82	162

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⚠️ If the models and specifications in this product catalogue change due to product updates, we will not provide prior notification.



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