



Automation for a Changing World

## Delta Power Meter DPM Series



# Product Introduction

Delta's Multifunction Power Meter DPM Series precisely measures various electrical energy and power quality parameters, including power factors, harmonics, and current/voltage unbalance, as well as provides off-limit alarms and history logs functions. The DPM Series offers a variety of communication protocols and monitoring functions that are especially suitable for sectors where power quality is critical.

## Specifications

Model Name	DPM-C530	DPM-C530E	DPM-C520	DPM-C520W
Product Appearance				
<b>Accuracy Class</b>				
Active Energy (IEC 62053-22)	Class 0.5S	Class 0.5S	Class 0.5S	Class 0.5S
<b>Measurement Accuracy</b>				
Current	1 A / 5 A	1 A / 5 A	1 A / 5 A	1 A / 5 A
Voltage	●	●	●	●
Frequency	●	●	●	●
Active, Reactive, and Apparent Power	●	●	●	●
Power Factor	●	●	●	●
Active, Reactive, and Apparent Energy	●	●	●	●
<b>Demand Values</b>				
Current	●	●		
Power	●	●		
Calculation Mode	Block	Sliding / Block		
<b>Power Quality Measurement</b>				
Current / Voltage Unbalance	●	●	●	●
Total Voltage Harmonic Distortion	●	●	●	●
Total Current Harmonic Distortion	●	●	●	●
Total Harmonic Distortion (THD)	●	●	●	●
Individual Current / Voltage Harmonics	Up to 31 <sup>st</sup>	Up to 31 <sup>st</sup>		
<b>Advanced Functions</b>				
Max. / Min. Instantaneous Values with Timestamp	●	●	●	●
Data Logs	17	17		
Data Logs Recording Duration	2 months	2 months		
Alarms History	500	500		
Parameter Grouping	35	35		
Auto-Recording	●	●		
Multi-Tariff (Interval Numbers)	8 groups	8 groups		
User Interface (UI)	4 languages	4 languages		
<b>Alarms / Control</b>				
Alarm Types	29	29	10	10
Digital Input / Digital Output				
<b>Communication</b>				
RS-485 Interface	●		●	●
Wireless Interface (802.11 b/g/n)				●
Modbus	MODBUS RTU/ASCII	TCP	RTU	RTU/TCP
BACnet MS/TP	●			
Ethernet		2 Port		

\* Min. / max. instantaneous : Phase voltage, line voltage, current, frequency, total 3 - phase active power, total 3 - phase reactive power, total 3 - phase apparent power, total power factor, total voltage harmonic distortion, total phase voltage harmonic distortion, total current harmonic distortion, phase voltage unbalance, 3 - phase current unbalance

\* Alarm types: Over-current, under-current, over natural current, over line voltage, under line voltage, over phase voltage, under phase voltage, over voltage unbalance, over current unbalance, over active power, over reactive power, over apparent power, power factor (lead), power factor (lag), over current demand, over active power demand, over reactive power demand, over apparent power demand, over frequency, under frequency, over total voltage harmonic distortion, over total current harmonic distortion, phase lose, restore factory setting, phase sequence reversal, over DUI, over EU

Model Name	DPM-C320	DPM-D520I	DPM-C501L	DPM-C502
Product Appearance				
<b>Accuracy Class</b>				
Active Energy (IEC 62053-22)	Class 1	0.5%	0.5%	0.5%
<b>Measurement Accuracy</b>				
Current	1 A / 5 A	63 A	1 A / 5 A	1 A / 5 A
Voltage	●	●	●	●
Frequency	●	●	●	●
Active, Reactive, and Apparent Power	●	●	●	●
Power Factor	●	●	●	●
Active, Reactive, and Apparent Energy	●	●	●	●
<b>Demand Values</b>				
Current		●		
Power		●		●
Calculation Mode		Block		Sliding
<b>Power Quality Measurement</b>				
Current / Voltage Unbalance	●	●	●	●
Total Voltage Harmonic Distortion	●	●	●	●
Total Current Harmonic Distortion	●	●	●	●
Total Harmonic Distortion (THD)	●	●	●	●
Individual Current / Voltage Harmonics		Up to 31 <sup>st</sup>		31 <sup>st</sup>
<b>Advanced Functions</b>				
Max. / Min. Instantaneous Values with Timestamp	●	●	●	●
Data Logs		17		7
Data Logs Recording Duration		2 months		7 days
Alarms History		500		
Parameter Grouping		35		5
Auto-Recording		●		
Multi-Tariff (Interval Numbers)		8 groups		4 groups
User Interface (UI)				
<b>Alarms / Control</b>				
Alarm Types	10	29	10	10
Digital Input / Digital Output			4DI/2DO	4DI/2DO
<b>Communication</b>				
RS-485 Interface	●	●	●	●
Wireless Interface (802.11 b/g/n)				
Modbus	RTU	RTU/ASCII	RTU	RTU
BACnet MS/TP				
Ethernet				

\* Data log: Phase voltage, line voltage, current, natural current, power factor, displacement power factor, total active power, total reactive power, total apparent power, positive active energy, reversed active energy, positive reactive energy, reversed reactive energy, positive apparent energy, reversed apparent energy, total voltage harmonic distortion, total current harmonic distortion

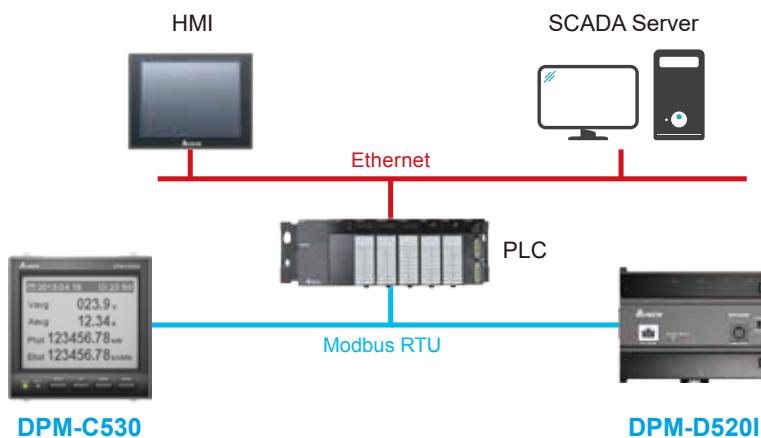
# Features of All Models

## ► High Precision Power Measurement

- Precise measurement of bidirectional electrical energy and power parameters, meeting IEC 62053-22 standards
- Supports power quality measurement, including total and individual harmonic distortion, voltage and current unbalance, and more

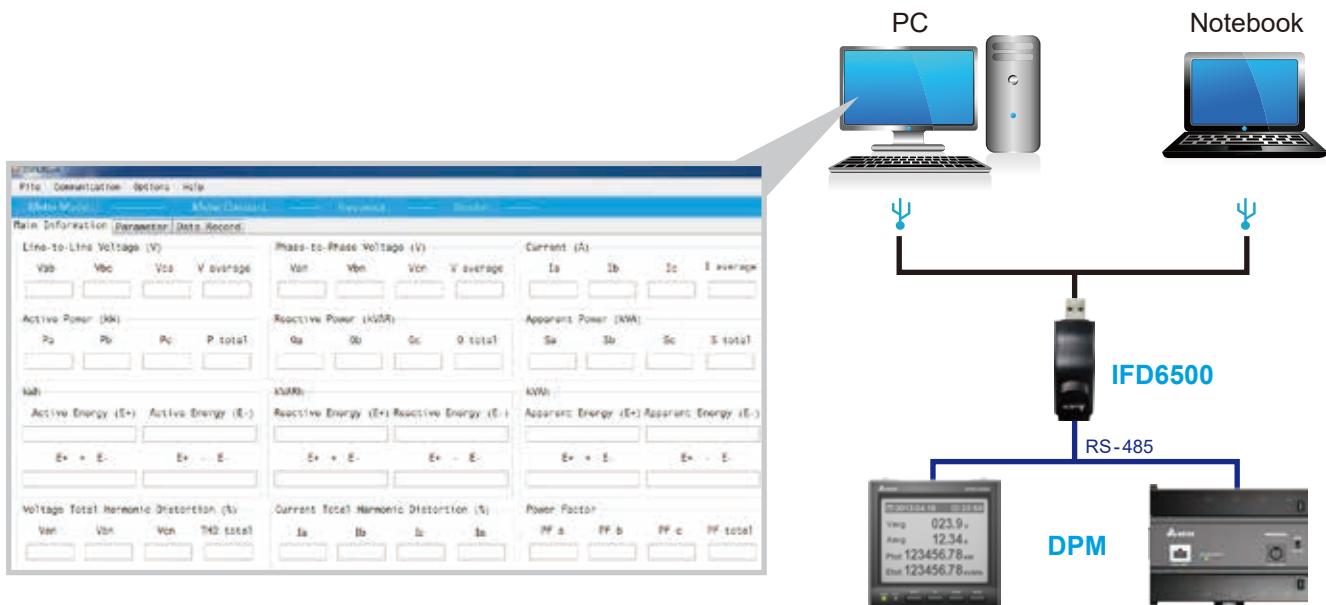
## ► Easy Operation and Installation

- Easy installation and disassembling with two fixing mounts, no screws or extra tools required
- Built-in RS-485 communication port supports Modbus for transmission of all measurement values to the PLCs, PCs and monitoring software



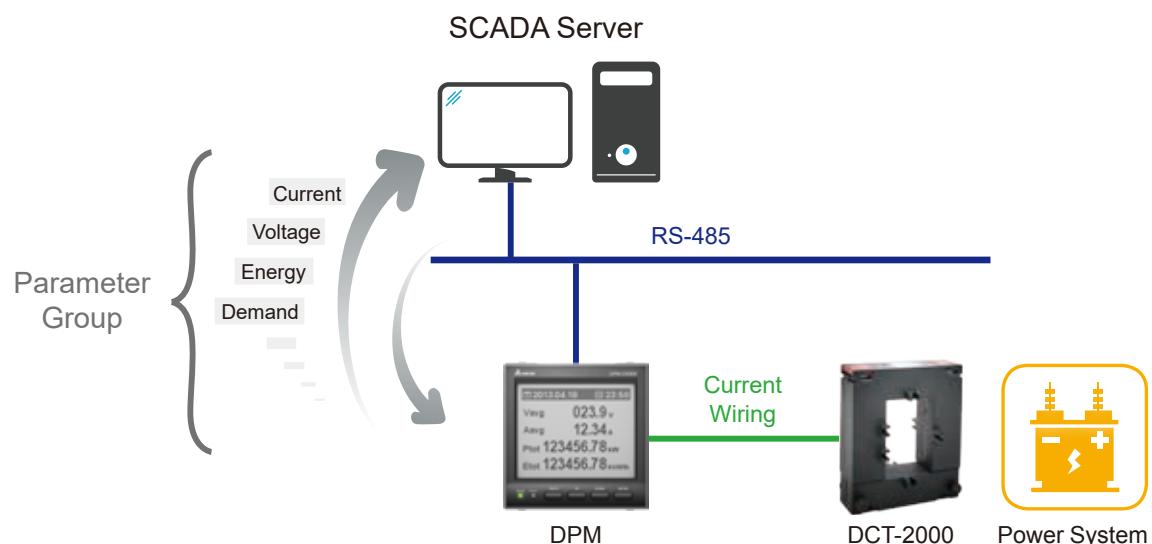
## ► PC-based Configuration Software

- The power meter configuration software DPMSoft collects electricity data and sets up meters via Modbus communication, achieving easy power management and analysis



## ► Parameter Grouping

- All electricity data can be combined as a parameter group that allows master controllers to access, enhancing real-time data accessibility and reducing editing time



## Features of Specific Models

### ► Multi-Language Display

#### DPM-C530/DPM-C530E

- Large dot matrix LCD (198 x 168 dots), high font recognition
- Multi-language display: English (capital and small letters), Chinese, Japanese and other languages



■ DPM-C530: higher visibility with dot matrix LCD display than segment LCD display

Ptot 123456.78 kW  
Etot 123456.78 kVArh



EASY

## Features of Specific Models

### ► Event Alarms and History Logs

The DPM-C530 adopts data record and demand functions that make the model suitable for summation metering as well as overall circuit energy analysis. Users may select the DPM-C520 or the DPM-C501L for branch electric circuit metering.

#### DPM-C530/DPM-D520I/DPM-C530E

- Keeps max. 2 months of power and electricity energy measurement values for history analysis; up to 17 power parameters selectable for recording different time intervals (e.g. recording 17 electricity parameters every 5 minutes, for up to 2 months); 29 types of built-in event alarms for up to 500 event records
- Front LED indicators for real-time alarm:  
Reads alert message and event log functions via communication protocols

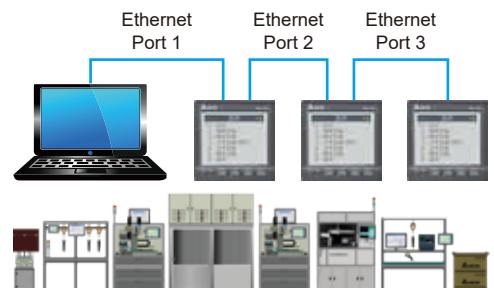
#### DPM-C520/DPM-C520W/DPM-C501L/DPM-C502/DPM-C320

- 10 types of built-in event alarms
- Front LED indicators for real-time alarm:  
reads alert messages and event log functions via communication protocols

### ► Ethernet Communication

#### DPM-C530E

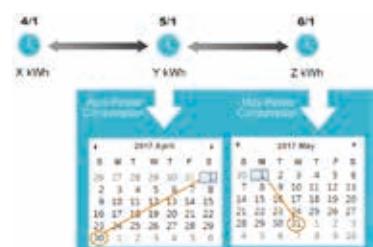
- Dual Ethernet protocols, supports Modbus TCP
- Easy connection with PCs to achieve serial applications without large amount of gateways
- Fast integration with general systems



### ► Auto-Recording

#### DPM-C530/DPM-C530E/DPM-D520I

- Automatic calculation of monthly energy consumption
- Allows users to setup specific date for monthly calculation



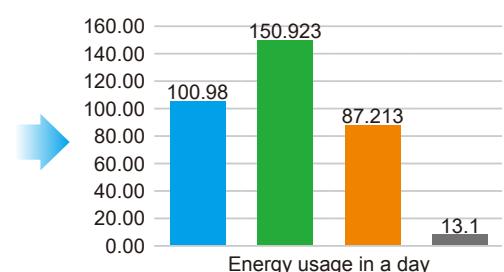
### ► Multi-Tariff

#### DPM-C530/DPM-C530E/DPM-D520I/DPM-C502

- Automatic measurement & calculation of power consumption during a specific time period
- Multiple interval groups setting to measure power consumption in different periods of time

	P1	09:00~12:00
	P2	12:00~17:00
	P3	17:00~23:00
	P4	23:00~09:00 (next day)

Settings of time slot



## ► Wireless Data Transmission

### DPM-C520W

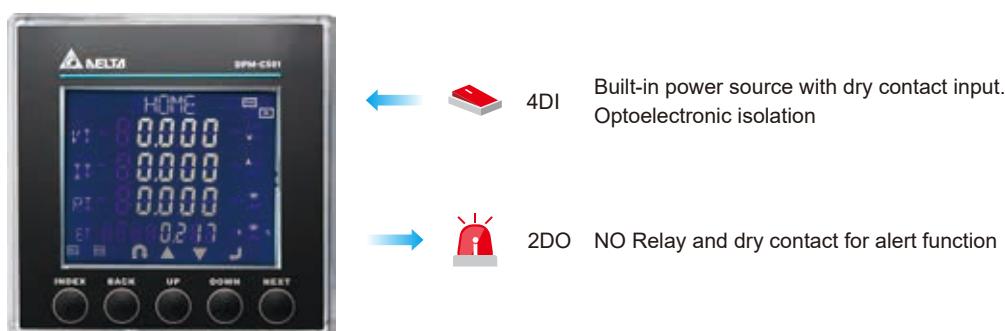
- The Wireless Multifunction Power Meter DPM-C520W adopts bidirectional wireless transmission to remotely monitor real-time electric parameters and energy consumption. This feature helps to build up a complete energy management system that replaces manual and wiring meter reading
- The DPM-C520W features:
  1. Reduced wiring cost and time
  2. High-speed data exchange and data transmission capability (speed much faster than RS-485)
  3. More secure wireless data protection
- Applications: Elevators, high-technology factories, warehouses, areas containing plenty of physical barriers, hospitals, and public offices that require data security



## ► DI/DO Digital Input and Output Functions

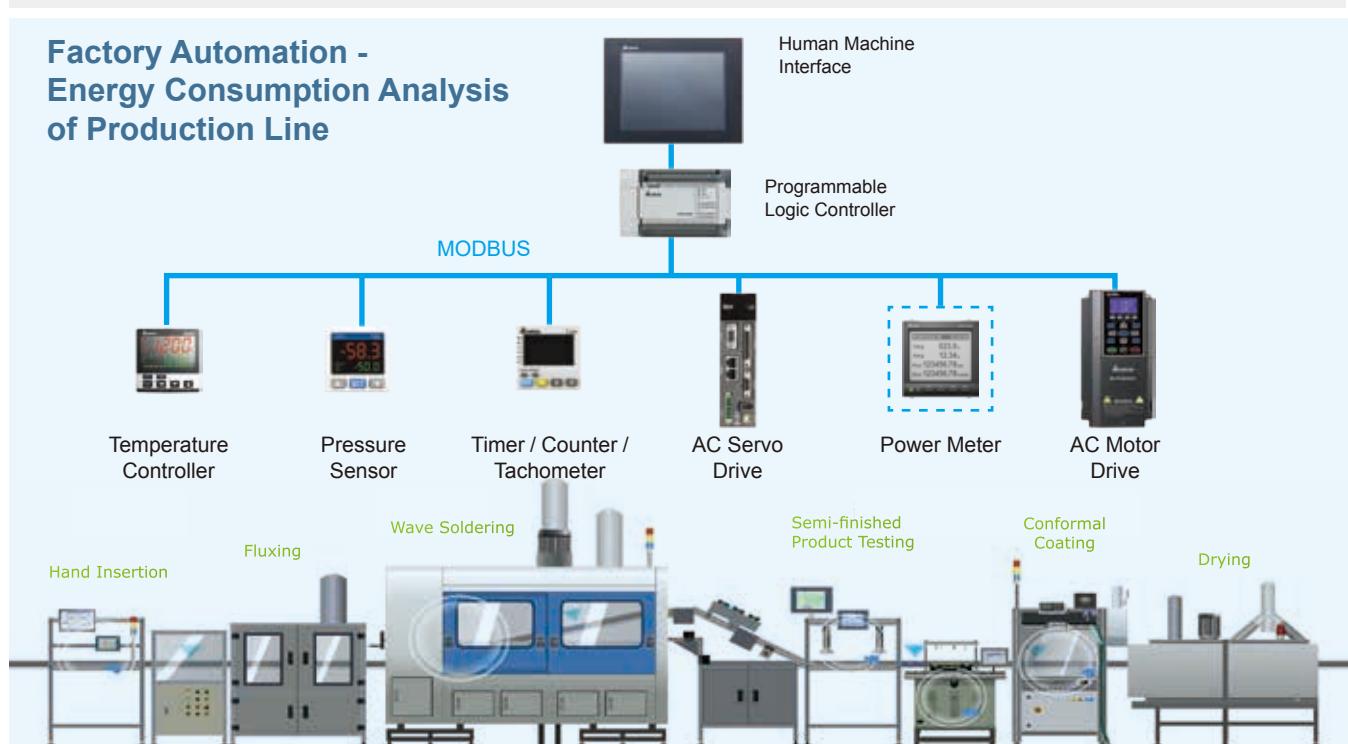
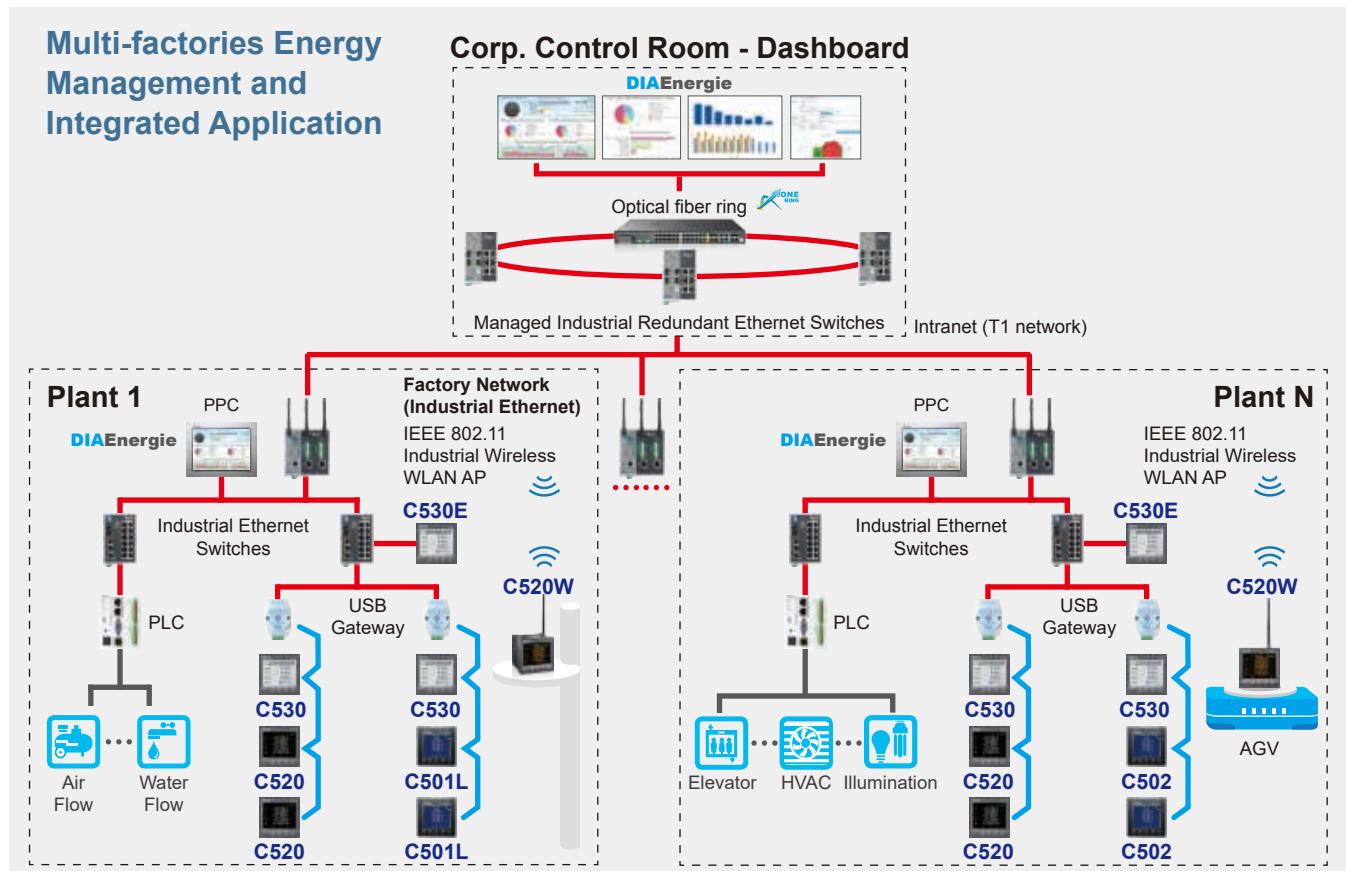
### DPM-C501L/DPM-C502

- The Basic DI/DO Relay Multifunction Power Meter DPM-C501L adopts digital input / output functions that connect with control equipment or management computers to remotely control and analyze energy quality. The DI/DO relay is also used as signals for displaying alerts
- Adopts built-in power source to input alert signals with dry contact for saving wiring cost. The optoelectronic isolation functions ensure cable safety
- For output, offers normally open (NO) relay and dry contact (2A/30VDC or 2A/250VAC), broadly applied in alert control output

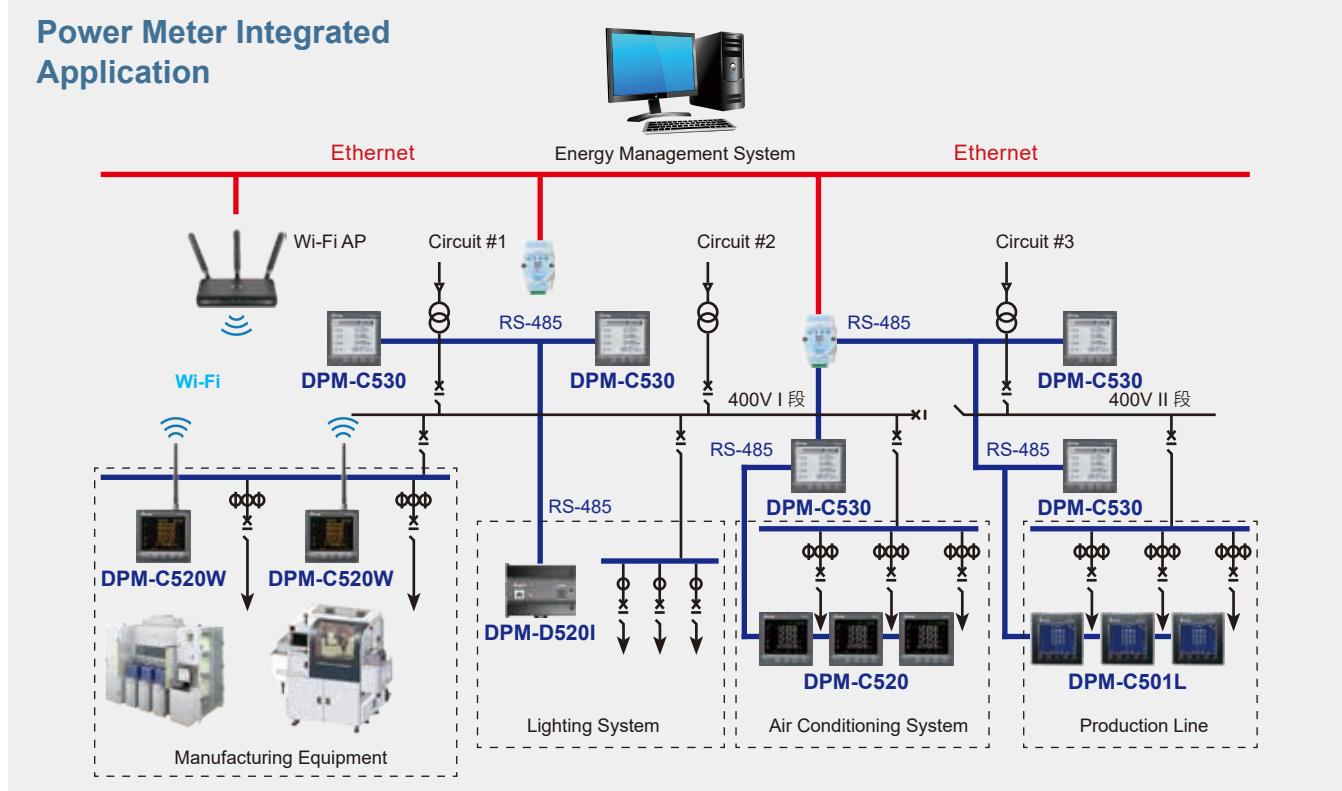
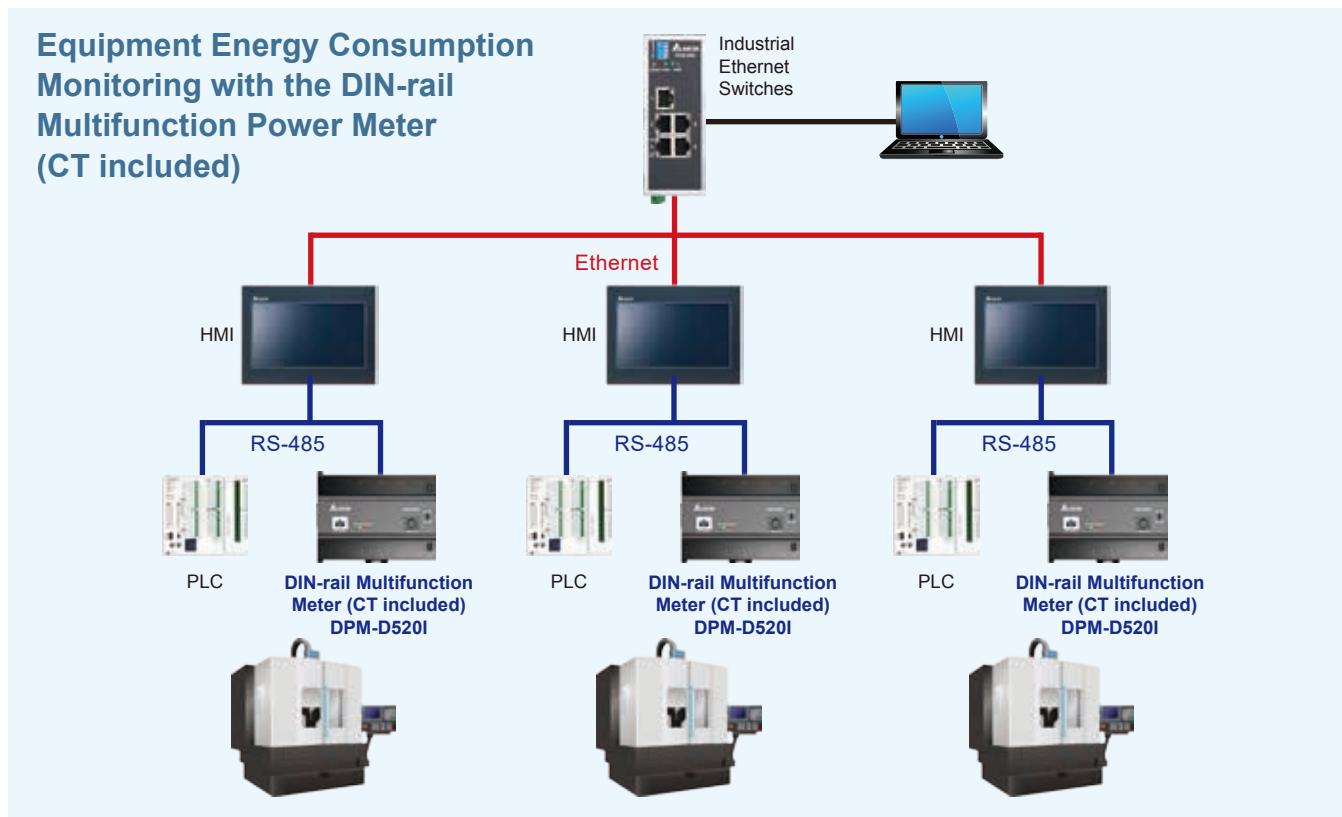


# Applications

- The DPM-C530 / C520 / C501L are suitable for: energy management, medium or low voltage distribution system, smart switch cabinet, energy management system, factory automation system, building automation system, railway energy management system, electric heating system, wind power system, energy storage system, electric grid measurement, and energy quality analysis



- The DPM-C520W is suitable for: elevators, warehouses, semiconductor plants, high-ceiling plants, hospitals, and equipment with mobility
- The DPM-D520I is suitable for: industrial machines, communication base station, IIoT equipment, and areas where CT is difficult to install with current lower than 63A



# Technical Specifications

Model Name	DPM-C530	DPM-C530E	DPM-C520	DPM-C520W			
<b>Electrical Characteristics</b>							
Measurement Accuracy	Current		± 0.5%				
	Voltage		± 0.5%				
	Power		±0.5%				
	Active Energy		IEC 62053-22 Class 0.5S				
	Reactive Energy		±0.5%				
	Power Factor		±0.5%				
	Frequency		±0.5%				
Input	Wiring Method	1-phase 2-wire / 1-phase 3-wire / 3-phase 3-wire / 3-phase 4-wire					
	Voltage	Wire voltage : 35~690V <sub>AC</sub> (L-L) Phase voltage : 20~400V <sub>AC</sub> (L-N)					
	Current	1A/5A					
	Frequency Range	45~70 Hz					
	Power Supply	80~265V <sub>AC</sub> (Max. power consumption 4.6W) 100~300V <sub>DC</sub>					
<b>Communication</b>							
Protocol (Interface)	Modbus RTU/ASCII (RS-485) BACnet MS/TP (RS-485)	Modbus TCP (Ethernet)	Modbus RTU (RS - 485)	Modbus RTU (RS-485) / Modbus TCP (WiFi, IEEE802.11 b/g/n)			
<b>Mechanical Characteristics</b>							
IP Protection	Front Display	IP52					
	Meter Body	IP20					
Dimensions ( W x H x D )	96x96x95.4 mm						
<b>Environmental Conditions</b>							
Operating Temperature	-20 °C ~ +60 °C						
Storage Temperature	-30 °C ~ +70 °C						
Relative Humidity	~95% RH						
Altitude	Below 2000 meters						
<b>Electromagnetic Compatibility</b>							
Electrostatic Discharge	IEC 61000-4-2						
Immunity to Radiated Fields	IEC 61000-4-3						
Immunity to Fast Transients	IEC 61000-4-4						
Immunity to Impulse Waves	IEC 61000-4-5						
Conducted Immunity	IEC 61000-4-6						
Immunity to Magnetic Fields	IEC 61000-4-8						
Immunity to Voltage Dips	IEC 61000-4-11						
Radiated Emissions	FCC part 15 EN 55011 Class A						
Conducted Emissions	FCC part 15 EN 55011 Class A						
Harmonics Emissions	IEC 61000-3-2						
Flicker Emissions	IEC 61000-3-3						
<b>Safety</b>							
Safety	UL/CE/RCM	UL/CE					
Precision	IEC 62053-22/CMA						
WiFi				CE/FCC/JRF/KCC/IC /NCC/NTC/IC			

<b>Model Name</b>	<b>DPM-C320</b>	<b>DPM-D520I</b>	<b>DPM-C501L</b>	<b>DPM-C502</b>		
<b>Electrical Characteristics</b>						
Measurement Accuracy	Current	± 1%	± 0.5%			
	Voltage	± 1%	± 0.5%			
	Power	± 1%	± 0.5%			
	Active Energy	IEC 62053-22 Class 0.5S				
	Reactive Energy	± 1%	± 0.5%			
	Power Factor	± 1%	± 0.5%			
	Frequency	± 1%	± 0.5%			
Input	Wiring Method	1-phase 2-wire / 1-phase 3-wire / 3-phase 3-wire / 3-phase 4-wire	3-phase 3-wire / 3-phase 4-wire	1-phase 2-wire / 1-phase 3-wire / 3-phase 3-wire / 3-phase 4-wire		
	Voltage	Wire voltage : 35~690V <sub>AC</sub> (L-L) Phase voltage : 20~400V <sub>AC</sub> (L-N)				
	Current	1A/5A	63A	1A/5A		
	Frequency Range	45~70Hz				
	Power Supply	80~265V <sub>AC</sub> (Max. power consumption 4.6 W) 100~300V <sub>DC</sub>				
<b>Communication</b>						
Protocol (Interface)	Modbus RTU / ASCII (RS - 485)		Modbus RTU (RS - 485)			
<b>Mechanical Characteristics</b>						
IP Protection	Front Display	IP52	-	IP52		
	Meter Body	IP20				
Dimensions ( W x H x D )	72x72x101 mm	126x90x67.4 mm	96 x 96 x 95.4 mm			
<b>Environmental Conditions</b>						
Operating Temperature	-20°C ~ +60°C		-20°C ~ +50 °C			
Storage Temperature	-30°C ~ +70°C		-30°C ~ +60 °C			
Relative Humidity	~95% RH					
Altitude	Below 2000 meters					
<b>Electromagnetic Compatibility</b>						
Electrostatic Discharge	IEC 61000-4-2					
Immunity to Radiated Fields	IEC 61000-4-3					
Immunity to Fast Transients	IEC 61000-4-4					
Immunity to Impulse Waves	IEC 61000-4-5					
Conducted Immunity	IEC 61000-4-6					
Immunity to Magnetic Fields	IEC 61000-4-8					
Immunity to Voltage Dips	IEC 61000-4-11					
Radiated Emissions	FCC part 15 EN 55011 Class A					
Conducted Emissions	FCC part 15 EN 55011 Class A					
Harmonics Emissions	IEC 61000-3-2					
Flicker Emissions	IEC 61000-3-3					
<b>Safety</b>						
Safety	UL/CE	CE/RCM				
Precision	IEC 62053-22/CMA	CMA	CMA	CMA		
WiFi						

## Dimensions (Units: mm)

### Panel Type

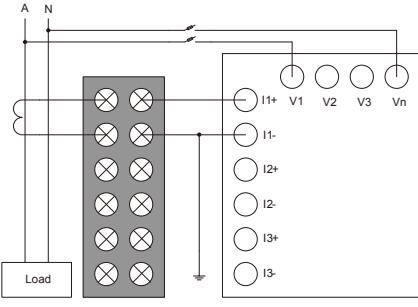
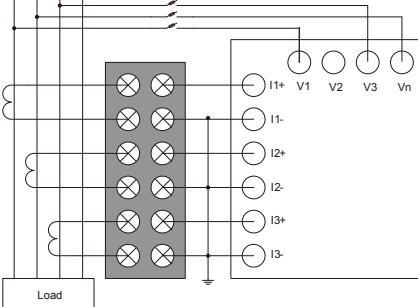
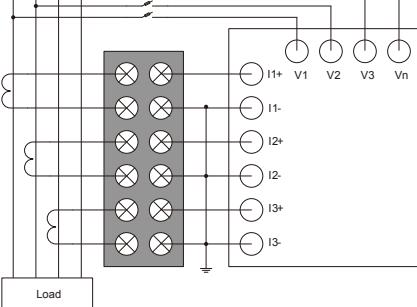
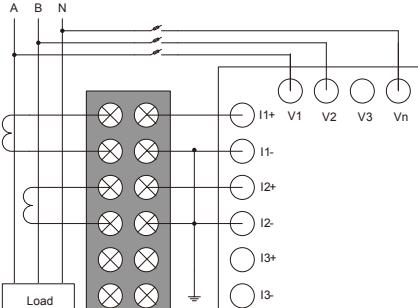
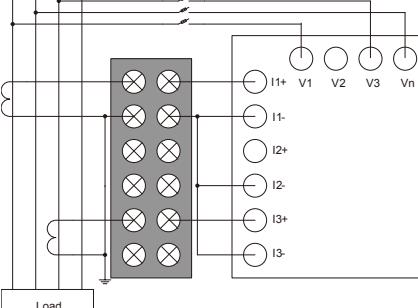
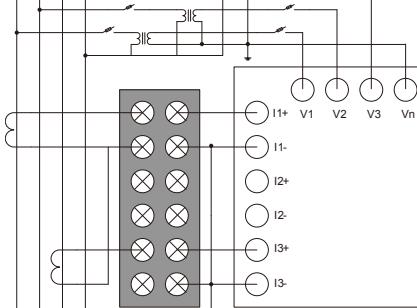
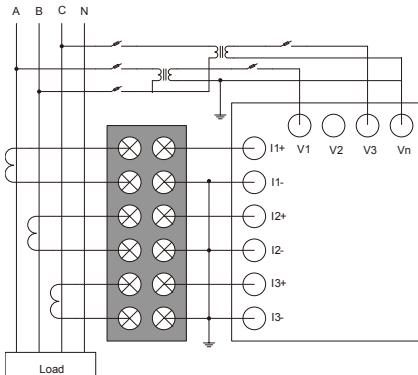
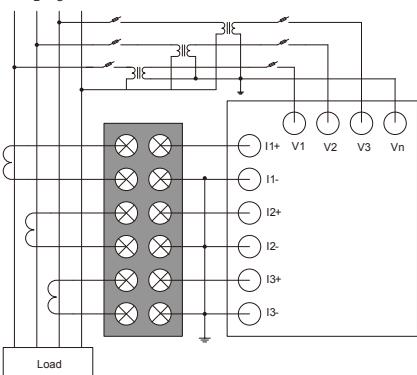
<ul style="list-style-type: none"> <li>• DPM-C530/C530E/C520/C520W</li> </ul>	<ul style="list-style-type: none"> <li>• DPM-C320</li> </ul>
<ul style="list-style-type: none"> <li>• DPM-C501L/C502</li> </ul>	

### DIN Rail Mount Type

<ul style="list-style-type: none"> <li>• DPM-D520I</li> </ul>	
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# Wiring Diagrams

## Panel Type (DPM-C530/C530E/C520/C520W/C320/C501L/C502)

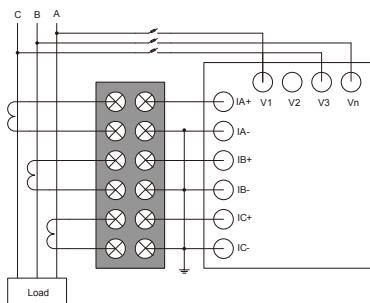
<ul style="list-style-type: none"> <li>• 1-Phase 2-Wire (1CT)</li> </ul> 	<ul style="list-style-type: none"> <li>• 3-Phase 3-Wire, Δ-Connection (3CT, no PT)</li> </ul> 	<ul style="list-style-type: none"> <li>• 3-Phase 4-Wire, Y-Connection (3CT, no PT)</li> </ul> 
<ul style="list-style-type: none"> <li>• 1-Phase 3-Wire (2CT)</li> </ul> 	<ul style="list-style-type: none"> <li>• 3-Phase 3-Wire, Δ-Connection (2CT, no PT)</li> </ul> 	<ul style="list-style-type: none"> <li>• 3-Phase 4-Wire, Y-Connection (2CT, 3 PT)</li> </ul> 
<ul style="list-style-type: none"> <li>• 3-Phase 3-Wire, Δ-Connection (3CT, 2PT)</li> </ul> 	<ul style="list-style-type: none"> <li>• 3-Phase 4-Wire , Y-Connection (3CT, 3 PT)</li> </ul> 	

# Wiring Diagrams

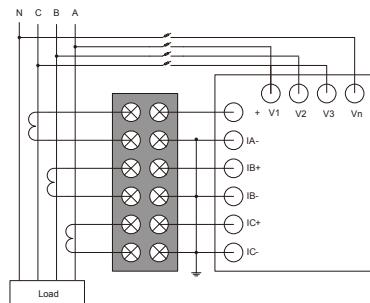
## DIN Rail Mount Type

DPM-D520I

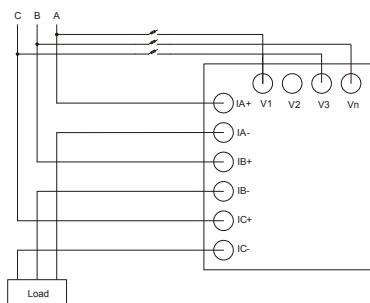
- 3-phase 3-wire, CT connection



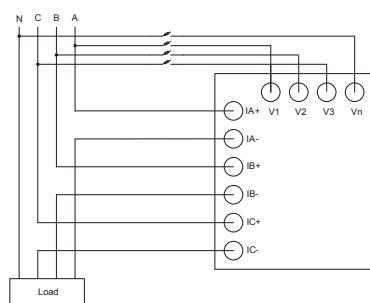
- 3-phase 4-wire, CT connection



- 3-phase 3-wire, direct connection

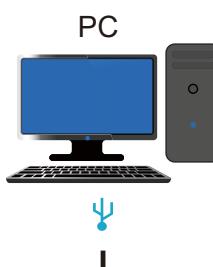


- 3-phase 4-wire, direct connection

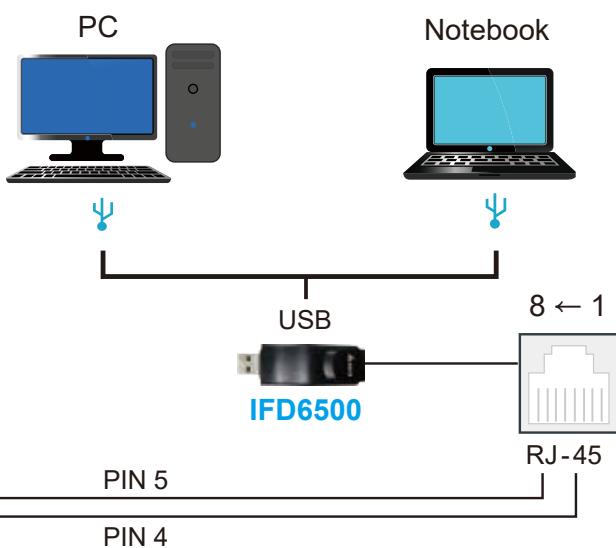


## Connection to DPMSoft

PIN	Definition
4	D+
5	D-

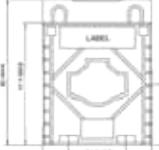
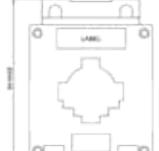
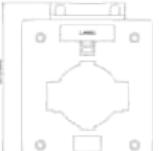


Notebook

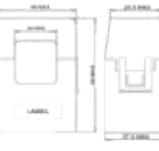
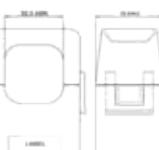


## Optional Accessories

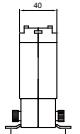
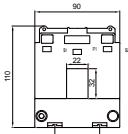
### Solid core current transformer

Model	Certification	Primary Current	Secondary Current	Max. Load	Measurement Accuracy (PF=1)	Dimensions (Unit: mm)	
DCT-MC010-5	-	100A	5A	1.5VA	1%	Outer: 80 x 60 x 38 Inner: 20 x 30.5	 
DCT-MC020-5	-	200A	5A	3.75VA	0.5%		
DCT-MC030-5	-	300A	5A	5VA	0.5%	Outer: 98 x 74.5 x 43 Inner: 42 x 42	 
DCT-MC040-5	-	400A	5A	7.5VA	0.5%		
DCT-MC050-5	-	500A	5A	5VA	0.5%	Outer: 127 x 103 x 45 Inner: 51 x 61	 
DCT-MC060-5	-	600A	5A	10VA	0.5%		

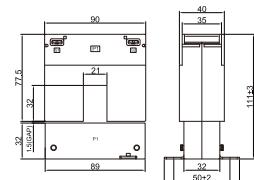
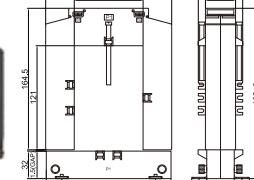
### Compact split core current transformer

Model	Certification	Primary Current	Secondary Current	wiring length	Measurement Accuracy (PF=1)	Dimensions (Unit: mm)	
DCT-CS010-5	-	100A	5A	1000mm	1%		
DCT-CS020-5	-	200A	5A	1000mm	1%	Outer: 66.8 x 49.8 x 34.2 Inner: 23.8 x 25.2	 
DCT-CS030-5	-	300A	5A	1000mm	1%		
DCT-CS040-5	-	400A	5A	1000mm	1%		
DCT-CS050-5	-	500A	5A	1000mm	1%	Outer: 85 x 69 x 42.5 Inner: 36.5 x 36.5	 
DCT-CS060-5	-	600A	5A	1000mm	1%		

## Split core current transformer

Model	Certification	Primary Current	Secondary Current	Max. Load	Measurement Accuracy (PF=1)	Dimensions (Unit: mm)	
DCT - S201B	UL	100A	5A	1.0VA	1.0%	Outer: 90 x 40 x 110 Inner: 30 x 20	  
DCT - S211B	UL	200A	5A	1.0VA	0.5%		
DCT - S221B	UL	300A	5A	1.5VA	0.5%		
DCT - S231B	UL	400A	5A	1.5VA	0.5%		
DCT - S241B	UL	500A	5A	2.5VA	0.5%		
DCT - S251B	UL	600A	5A	2.5VA	0.5%		
DCT - S261B	UL	750A	5A	2.5VA	0.5%		
DCT - S2C1B	UL	800A	5A	3.75VA	0.5%		
DCT - S271B	UL	1000A	5A	5VA	0.5%		

## Split core current transformer

Model	Certification	Primary Current	Secondary Current	Max. Load	Measurement Accuracy (PF=1)	Dimensions (Unit: mm)	
DCT - S301C	CE	100A	5A	1.5VA	1.0%	Outer: 89 x 40 x 115 Inner: 32 x 21	 
DCT - S211C	CE	200A	5A	1.0VA	0.5%		
DCT - S221C	CE	300A	5A	1.5VA	0.5%		
DCT - S231C	CE	400A	5A	2.5VA	0.5%		
DCT - S241C	CE	500A	5A	2.5VA	0.5%		
DCT - S251C	CE	600A	5A	2.5VA	0.5%		
DCT - S261C	CE	750A	5A	2.5VA	0.5%		
DCT - S271C	CE	1000A	5A	5VA	0.5%		
DCT - S281C	CE	1500A	5A	7.5VA	0.5%		
DCT - S291C	CE	2000A	5A	10VA	0.5%		
DCT - S2A1C	CE	2500A	5A	15VA	0.5%	Outer: 186 x 67 x 250 Inner: 81 x 160.5	 
DCT - S2B1C	CE	3000A	5A	20VA	0.5%		

# Global Operations

## ASIA (Taiwan)



Taoyuan  
Technology Center  
(Green Building)



Taoyuan Plant 1



Tainan Plant  
(Diamond-rated Green Building)

## ASIA (China)



Wujiang Plant 3



Delta Electronics



**ASIA (Japan)**

Tokyo Office

**ASIA (India)**Rudrapur Plant  
(Green Building)**EUROPE**

Amsterdam, Netherlands

**AMERICA**

Research Triangle Park

▲ Factories 5 ■ Branch Offices 102 ○ R&D Centers 6 ■ Distributors 824

**Korea**Seoul  
Daegu  
Japan  
Korea**Shanghai**  
Wujiang**Taoyuan**  
(Technology Center & Plant 1)  
**Zhong Li****Taichung**  
**Tainan****China**

1 Heilongjiang Harbin	9 Jiangsu Yangzhou Nanjing Nantong Changzhou Wuxi Suzhou Zhangjiagang	13 Fujian Xiamen	19 Shaanxi Xian
2 Jilin Changchun	10 Shanghai	14 Jiangxi Nanchang	20 Henan Zhengzhou
3 Liaoning Shenyang Dalian	11 Anhui Hefei	15 Guangdong Shantou Dongguan Shenzhen Guangzhou Foshan	21 Hubei Wuhan
4 Shanxi Taiyuan	12 Zhejiang Hangzhou Ningbo Taizhou Wenzhou Jiaxing Shaoxing	16 Guangxi Nanning	22 Hunan Changsha
5 Beijing	17 Yunnan Kunming	18 Sichuan Chengdu	23 Chongqing
6 Tianjin	19 Fujian Xiamen	20 Henan Zhengzhou	
7 Hebei Shijiazhuang	21 Hubei Wuhan	22 Hunan Changsha	
8 Shandong Weifang Qingdao Jinan Linyi	23 Chongqing		
	24 New Zealand		



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