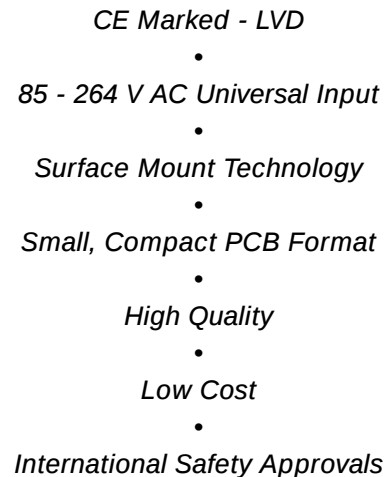


10-150 Watts



Input Voltage	85-264 V AC (110-370 V DC) CPA10USXX to CPA75USXX (PFC models - 120-370 V DC) 85-132 V AC/170-264 V AC autoranging CPA100USXX & CPA150USXX
Power Factor	Typically 0.93 (optional on 50 W and above @ 230 V AC input)
Input Frequency	47-440 Hz (47-63 Hz PFC units)
Inrush Current	30 A typ. at 230 V input and full load (cold start)
Hold Up Time	10 ms min at 85 V input and full load (20 ms typical at 100 V input)
Leakage Current	0.75 mA max
Output Voltage	See Table. Adjustment range $\pm 10\%$
Line Regulation	0.4% max. over specified input range
Load Regulation	0.8% max. for a 100% load change
Output Ripple & Noise	80 mV pk-pk typical (180 mV p-p max)
Minimum Load	No minimum load needed
Short Circuit and Overload Protection	Operates > 105% of rating & recovers automatically (approximates to constant current, current limit)
Overvoltage Protection	Operates > 115% to 140% of rating
Efficiency	In the range 72-82% typ. for 5 V - 24 V outputs
Operating Temperature	-10 °C to +70 °C (derate above +50 °C, use +40 °C max for 150 W units)
Storage Temperature	-20 °C to +75 °C
Relative Humidity	20 to 90% non-condensing
Vibration	10-55 Hz at 2 G, 3 mins period for 60 mins along X, Y & Z axis
Shock	20 G for 11 ms, once on X, Y and Z axis
Isolation (input-output)	3000 V AC for 1 min, 500 V DC, 50 Mohm
(input-earth)	2000 V AC for 1 min, 500 V DC, 50 Mohm
(output-earth)	500 V AC for 1 min, 500 V DC, 50 Mohm
EMC	Complies with FCC curve B. Vfg 243/91, VCCI 2 and EN55022B
Safety Approvals	Approved to UL 1950, and CSA 22.2 No. 234, EN 60950
Covers	Available as an Option - Suffix C
Mating Connectors	Available as an Option - See Mechanical Details
Cable Looms	Available as an Option

Output Voltage & Current Ratings

Voltage	3 Volts	5 Volts	9 Volts	12 Volts	15 Volts	18 Volts	24 Volts	30 Volts	48 Volts
Power									
Non-PFC 10 Watts	CPA10US03 3 V @ 2 A	CPA10US05 5 V @ 2 A	-	CPA10US12 12 V @ 0.9 A	CPA10US15 15 V @ 0.7 A	-	CPA10US24 24 V @ 0.5 A	-	-
Non-PFC 15 Watts	CPA15US03 3 V @ 3 A	CPA15US05 5 V @ 3 A	-	CPA15US12 12 V @ 1.3 A	CPA15US15 15 V @ 1 A	-	CPA15US24 24 V @ 0.7 A	-	-
Non-PFC 30 Watts	CPA30US03 3 V @ 6 A	CPA30US05 5 V @ 6 A	-	CPA30US12 12 V @ 2.5 A	CPA30US15 15 V @ 2 A	-	CPA30US24 24 V @ 1.3 A	-	-
Non-PFC 50 Watts	CPA50US03 3 V @ 10 A	CPA50US05 5 V @ 10 A	CPA50US09 9 V @ 5.5 A	CPA50US12 12 V @ 4.3 A	CPA50US15 15 V @ 3.5 A	CPA50US18 18 V @ 2.75 A	CPA50US24 24 V @ 2.1 A	CPA50US30 30 V @ 1.7 A	CPA50PS48 48 V @ 1.1 A
Non-PFC 75 Watts	CPA75US03 3 V @ 15 A	CPA75US05 5 V @ 15 A	CPA75US09 9 V @ 8.5 A	CPA75US12 12 V @ 6.3 A	CPA75US15 15 V @ 5 A	CPA75US18 18 V @ 4.2 A	CPA75US24 24 V @ 3.2 A	CPA75US30 30 V @ 2.5 A	-
PFC 100 Watts	CPA100US03 3 V @ 20 A	CPA100US05 5 V @ 20 A	CPA100US09 9 V @ 11.5 A	CPA100US12 12 V @ 8.5 A	CPA100US15 15 V @ 6.7 A	CPA100US18 18 V @ 5.6 A	CPA100US24 24 V @ 4.3 A	CPA100US30 30 V @ 3.5 A	CPA100PS48 48 V @ 2 A
Non-PFC 150 Watts	CPA150US03 3 V @ 30 A	CPA150US05 5 V @ 30 A	CPA150US09 9 V @ 17 A	CPA150US12 12 V @ 12.5 A	CPA150US15 15 V @ 10 A	CPA150US18 18 V @ 8.5 A	CPA150US24 24 V @ 6.3 A	CPA150US30 30 V @ 5 A	CPA150PS48 48 V @ 3 A

Application Details**NOTES:**

Earthing: 'FG' Terminal should be used as AC Input Earth. It is isolated from DC output terminals, either output terminal + or - may be connected to 'FG'.

Options: Mating input and output connectors and covers are available at the time of ordering units.
See mechanical details .

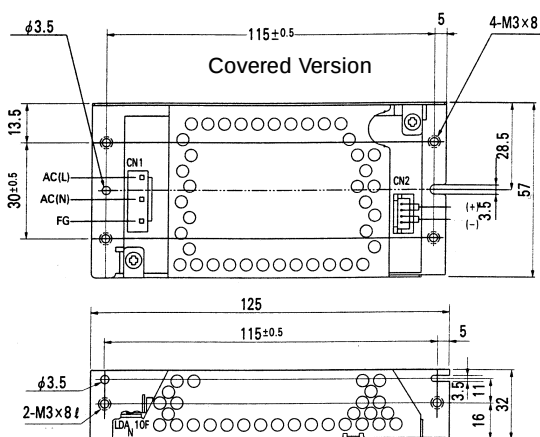
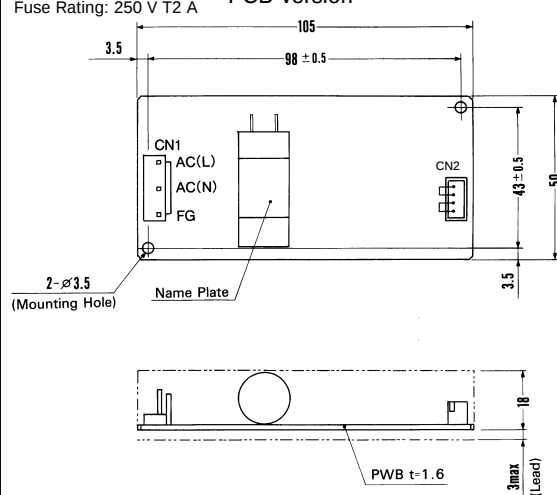
-R : Remote Control
-G : Low leakage current
-J1 : Molex Connectors
-J2 : Screw Terminals

} CPA50-150 PFC versions only

Loom kit: Comprising two 300 mm length cable looms, one terminated with a mating connector for input and the other for output terminals. Example : order as CPA100 LOOM KT

Mechanical Details - 10 Watt Models**CPA10**

Fuse Rating: 250 V T2 A

PCB Version

Supplied cover fitted use suffix - C eg. CPA10US05-C
Supplied as cover kit: Order **CPA10/COVER KIT**

I/O Connector	Mating Connector/Terminal
CN1	B3P5-VH VHR-5N (SVH-21T-1.1 or SVH-21T-P1.1)
CN2	B4B-XH-A XPH-4 (BXH-001T-P0.6 or SXH-001T-P0.6)

(Mfr: JST)

Pin Assignment

Pin No.	Input
1	AC(L)
2	AC(N)
3	AC(N)
4	FG
5	FG

Pin No.	Input
1	- V
2	- V
3	+ V
4	+ V

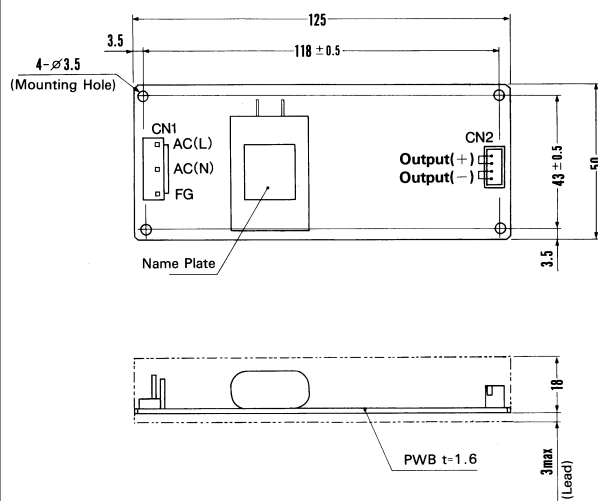
* Weight: 75g or less
* Tolerance: ±1
* Dimensions in mm.
* PCB Material: Glass composite (CEM3)

Mechanical Details - 15 Watt Models

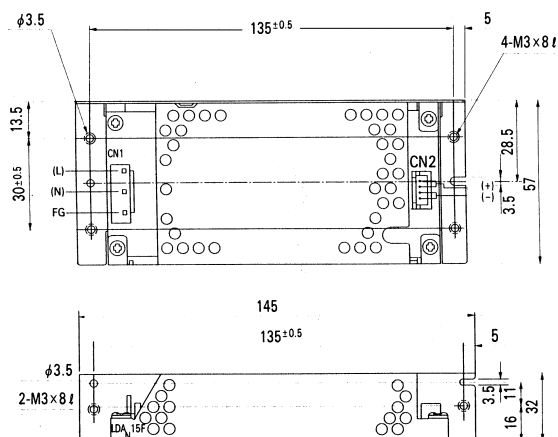
CPA15

Fuse Rating: 250 V T2 A

PCB Version



Covered Version



Supplied cover fitted use suffix - C. eg. CPA15US24-C
Supplied as cover kit: order **CPA15/COVER KIT**

I/O Connector	Mating Connector/Terminal
CN1	B3P5-VH VHR-5N (SVH-21T-1.1 or SVH-21T-P1.1)
CN2	B4B-XH-A XPH-4 (BXH-001T-P0.6 or SXH-001T-P0.6)

(Mfr: JST)

Pin Assignment

Pin No.	Input
1	AC(L)
2	AC(N)
3	AC(N)
4	AC(N)
5	FG

Pin No.	Input
1	-V
2	-V
3	+V
4	+V

* Keep output current per pin below 2 A for CN2.

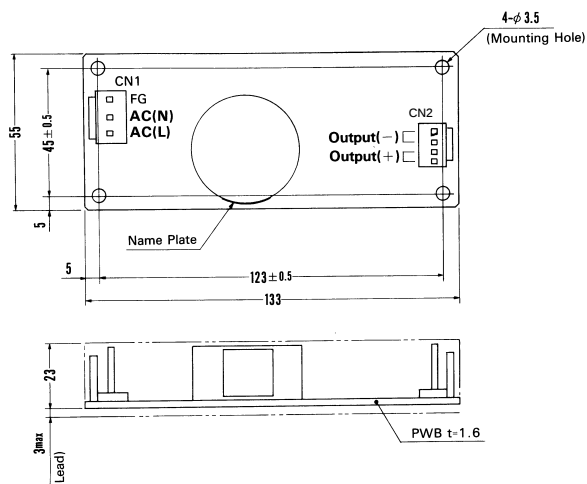
- * Weight: 95g or less
- * Tolerance: ± 1
- * Dimensions in mm.
- * PCB Material: Glass composite (CEM3)

Mechanical Details - 30 Watt Models

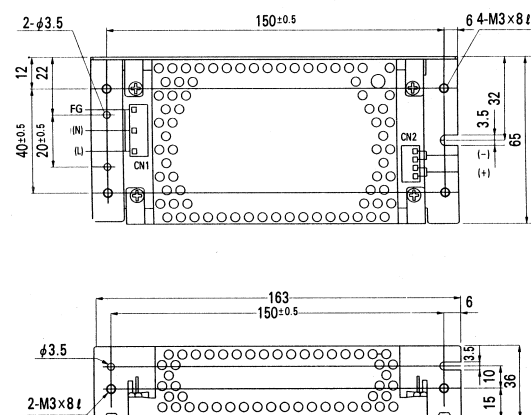
CPA30

Fuse Rating: 250 V T3 A

PCB Version



Covered Version



Supplied cover fitted use suffix - C. eg. CPA30US24-C
Supplied as cover kit: order **CPA30/COVER KIT**

I/O Connector	Mating Connector/Terminal
CN1	B3P5-VH VHR-5N (SVH-21T-1.1 or SVH-21T-P1.1)
CN2	B4P-VH VHR-4N (SVH-21T-1.1 or SVH-21T-P1.1)

(Mfr: JST)

Pin Assignment

Pin No.	Input
1	AC(L)
2	AC(N)
3	AC(N)
4	AC(N)
5	FG

Pin No.	Input
1	-V
2	-V
3	+V
4	+V

* Keep output current per pin below 5 A for CN2.

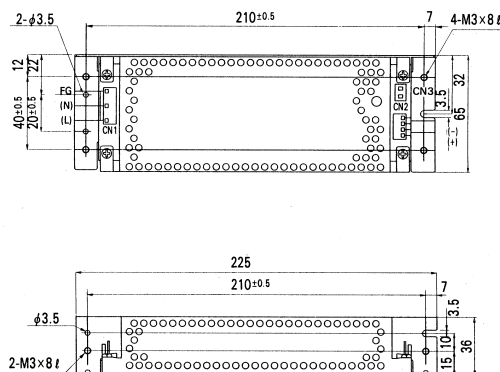
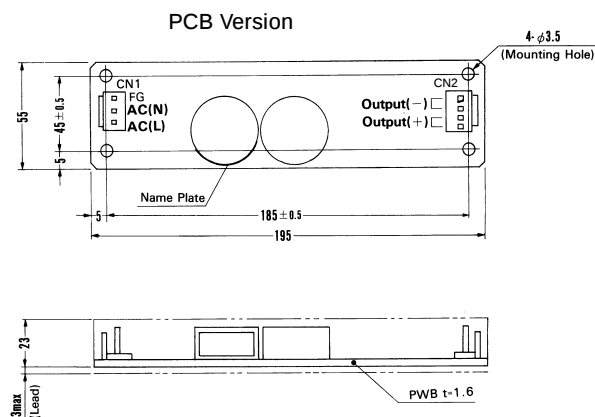
- * Weight: 200g or less
- * Tolerance: ± 1
- * Dimensions in mm.
- * PCB Material: Glass composite (CEM3)

Mechanical Details - 50 Watt Models

CPA50

Fuse Rating: 250 V T3 A

Covered Version



Supplied cover fitted use suffix - C. eg. CPA50PS24-C
 Supplied as cover kit: order **CPA50 COVER KIT**

I/O Connector	Mating Connector/Terminal
CN1	B3P5-VH VHR-5N (SVH-21T-1.1 or SVH-21T-P1.1)
CN2	B4P-VH VHR-4N (SVH-21T-1.1 or SVH-21T-P1.1)
CN3	B2B-XH-A XHP-2 (BXH-00IT-P0.6 or SXH-00IT-P0.6)

(Mfr: JST)

Pin Assignment

Pin No.	Input
1	AC(L)
2	AC(N)
3	AC(N)
4	AC(N)
5	FG

Pin No.	Input
1	- V
2	- V
3	+ V
4	+ V

* Keep output current per pin below 5 A for CN2.

* Weight: 250g or less

* Tolerance: ±1

* Dimensions in mm.

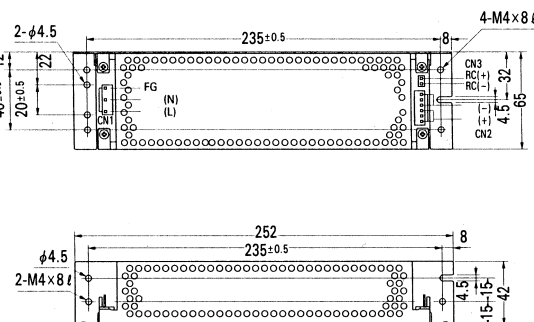
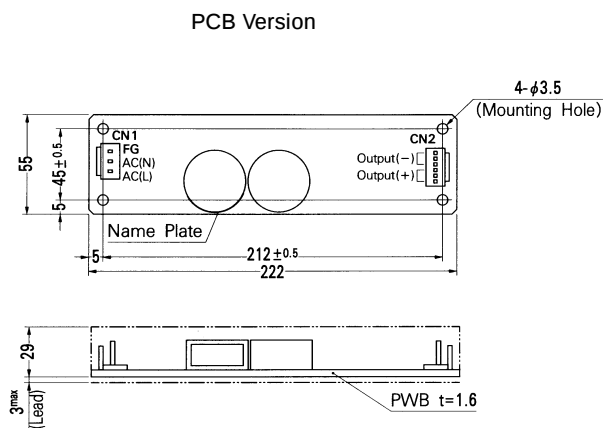
* PCB Material: Glass composite (CEM3)

Mechanical Details - 75 Watt Models

CPA 75

Fuse Rating: 250 V T5 A

Covered Version



Supplied cover fitted use suffix - C. eg. CPA75PS24-C
 Supplied as cover kit: order **CPA75 COVER KIT**

I/O Connector	Mating Connector/Terminal
CN1	B3P5-VH VHR-5N (SVH-21T-1.1 or SVH-21T-P1.1)
CN2	B6P-VH VHR-6N (SVH-21T-1.1 or SVH-21T-P1.1)
CN3	B2B-XH-A XHP-2 (BXH-00IT-P0.6 or SXH-00IT-P0.6)

(Mfr: JST)

Pin Assignment

Pin No.	Input
1	AC(L)
2	AC(N)
3	AC(N)
4	AC(N)
5	FG

Pin No.	Output
1-3	- V
4-6	+ V

* Keep output current per pin below 5 A for CN2.

* Weight: 320g or less

* Tolerance: ±1

* Dimensions in mm.

* PCB Material: Glass composite (CEM3)

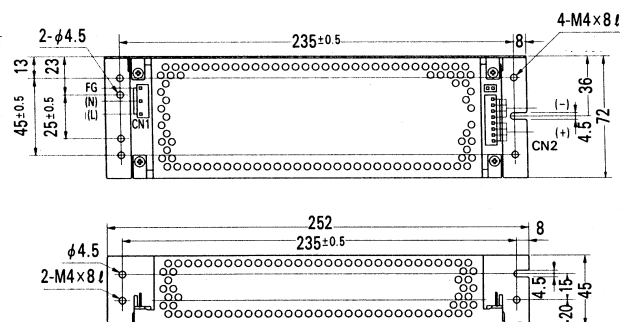
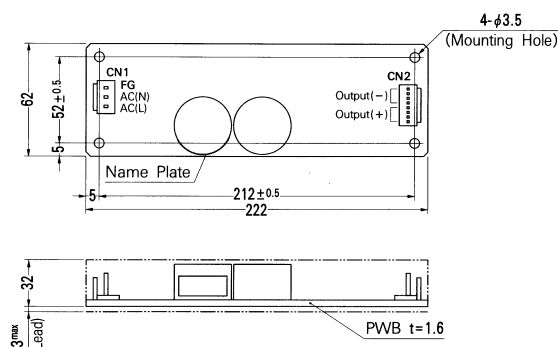
Mechanical Details - 100 Watt Models

CPA 100

Fuse Rating: 250 V T5 A

Covered Version

PCB Version



Supplied cover fitted use suffix - C. eg. CPA100PS24-C
Supplied as cover kit: order **CPA100 COVER KIT**

I/O Connector	Mating Connector/Terminal
CN1	B3P5-VH VHR-5N (SVH-21T-1.1 or SVH-21T-P1.1)
CN2	B8P-VH VHR-8N (SVH-21T-1.1 or SVH-21T-P1.1)
CN3	B7P-VH XHP-2 (BXH-00IT-P0.6 or SXH-00IT-P0.6)

(Mfr: JST)

Pin Assignment

Pin No.	Input
1	AC(L)
2	
3	AC(N)
4	
5	FG

Pin No.	Output
1-4	- V
5-8	+ V

* Keep output current per pin below 5 A for CN2.

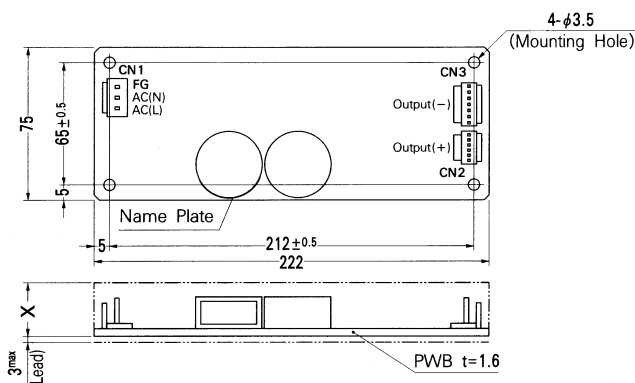
* Weight: 360g or less
* Tolerance: ± 1
* Dimensions in mm.
* PCB Material: Glass composite (CEM3)

Mechanical Details - 150 Watt Models

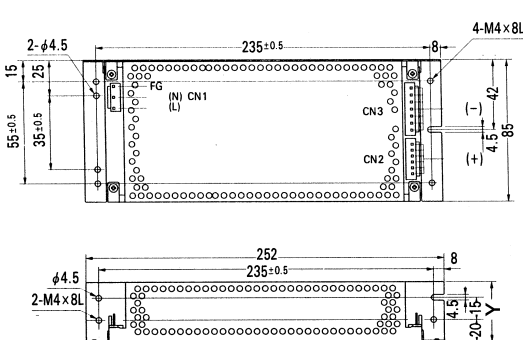
CPA 150

Fuse Rating: 250 V T6.3 A

PCB Version



Covered Version



Supplied cover fitted use suffix - C. eg. CPA150PS24-C
Supplied as cover kit: order **CPA150 COVER KIT**

Dimensions	
X	= 37 mm for CPA150PXXX
	= 34 mm for CPA150UXXX
Y	= 51 mm for CPA150PXXX
	= 47 mm for CPA150UXXX

I/O Connector	Mating Connector/Terminal
CN1	B3P5-VH VHR-5N (SVH-21T-1.1 or SVH-21T-P1.1)
CN2	B6P-VH VHR-8N (SVH-21T-1.1 or SVH-21T-P1.1)
CN3	B7P-VH VHR-7N (SVH-21T-1.1 or SVH-21T-P1.1)
CN4	B7P-VH XHP-2 (BXH-00IT-P0.6 or SXH-00IT-P0.6)

(Mfr: JST)

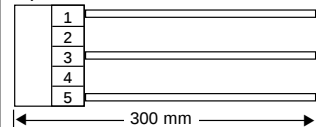
PIN ASSIGNMENT

Pin No.	Input
1	AC(L)
2	
3	AC(N)
4	
5	FG

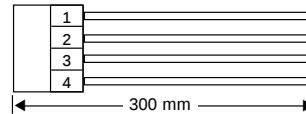
Pin No.	Output
1-6	+ V
1-7	- V

* Keep output current per pin below 5 A for CN2.

* Weight: 510g or less
* Tolerance: ± 1
* Dimensions in mm.
* PCB Material: Glass composite (CEM3)

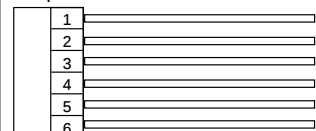
Loom Kits & Overcurrent Characteristics**LOOM KIT CPA10 to CPA150 Units Input Connectors****Input Connector**

Pin No.	Wire Gauge	Colour	Input
1	0.5 mm	Brown	L
2	-	-	-
3	0.5 mm	Blue	N
4	-	-	-
5	0.5 mm	Grn/Yel	E

LOOM KIT CPA10, 15, 30 & 50 Output Connectors**Output Connector**

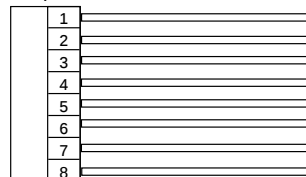
Order as e.g. CPA10/15 LOOM KT

Pin No.	Wire Gauge	Colour
1 & 2	0.5 mm	Black
3 & 4	0.5 mm	Red

LOOM KIT CPA75 Output Connector**Output Connector**

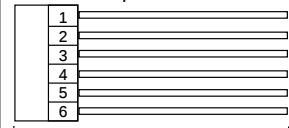
Order as CPA75 LOOM KT

Pin No.	Wire Gauge	Colour
1-3	0.5 mm	Black
4-6	0.5 mm	Red

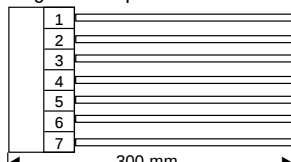
LOOM KIT CPA100 Output Connector**Output Connector**

Order as CPA100 LOOM KT

Pin No.	Wire Gauge	Colour
1-4	0.5 mm	Black
5-8	0.5 mm	Red

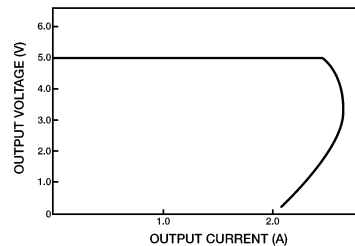
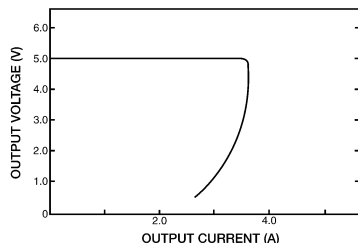
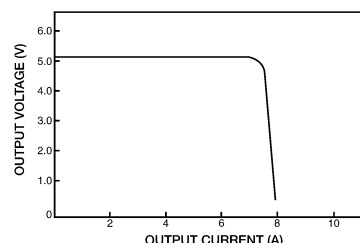
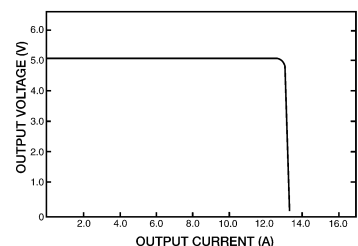
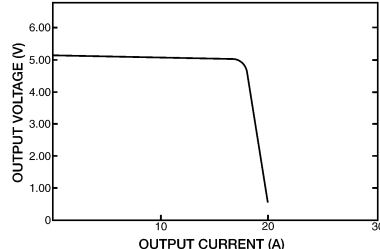
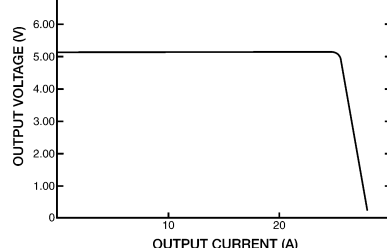
LOOM KIT CPA150 Output Connector**Positive Output Connector**

Pin No.	Wire Gauge	Colour
1-6	0.5 mm	Red

Negative Output Connector

Order as CPA150 LOOM KIT

Pin No.	Wire Gauge	Colour
1-7	0.5 mm	Black

OVERCURRENT CHARACTERISTICS**MODEL:**
CPA10US05**OVERCURRENT CHARACTERISTICS****MODEL:**
CPA15US05**OVERCURRENT CHARACTERISTICS****MODEL:**
CPA30US05**OVERCURRENT CHARACTERISTICS****MODEL:**
CPA50US05**OVERCURRENT CHARACTERISTICS****MODEL:**
CPA75US05**OVERCURRENT CHARACTERISTICS****MODEL:**
CPA100PS05**OVERCURRENT CHARACTERISTICS****MODEL:**
CPA150PS05