# CompactPCI® SYSTEM POWER SUPPLIES

## CPCI SERIES 150 to 350 Watts, Ac Input with PFC

## DCPI SERIES 150 to 350 Watts, 48 Vdc Input

EXECUTIVE MEMBER



### FEATURES:

- 150 W and 200 W in 3U x 8HP, 350 W in 6U x 8HP
- Fully compliant with PICMG **CompactPCI**® specifications
- Current sharing and internal OR-ing diodes for N+1 redundancy
- High current 5 V and 3.3 V outputs
- **CompactPCI**® package requires only 15 cfm of external cooling air
- Universal ac input versions with power factor correction
- 48 Vdc input versions

The CPCI series (ac input) and DPCI series (dc input) are highly reliable power supplies for CompactPCI systems, which are increasingly used in communications, industrial, military/aerospace, and other applications. These power supplies offer high power density in plug-in modules that meet the requirements of the PICMG® power interface specification for CompactPCI systems.

These units may be used as a single power supply for a CompactPCI system, or multiple units may be used in parallel for higher power capability as needed. In addition, all units include current sharing, internal OR-ing diodes, and a hot plug input/output connector to offer full hot swap capability and N+1 redundancy. Also, compatible ac and dc input units offer standardization on a single power supply series for a system mechanical configuration.

3U x 8 HP



6U x 8 HP



| Connector | Input | Power | Model No. | Connector | Input | Power | Model No. |
|---|---|---|---|---|---|---|---|
| 47 Pin Modular | Ac | 150 W | CPCI-154-1203 | 47 Pin Modular | Ac | 350 W | CPCI-354T-1203 |
| | | 200 W | CPCI-204-1203 | | Dc | 350 W | DPCI-354T-1203 |
| | Dc | 150 W | DPCI-154-1203 | 38 Pin Modular | Ac | 350 W | CPCI-354-1203 |
| | | 200 W | DPCI-204-1203 | | Dc | 350 W | DPCI-354-1203 |
| DIN “M” | Ac | 150 W | CPCI-154-1203M | | | | |
| | | 200 W | CPCI-204-1203M | | | | |
| | Dc | 150 W | DPCI-154-1203M | | | | |
| | | 200 W | DPCI-204-1203M | | | | |

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Condor D.C. Power Supplies, Inc. • 2311 Statham Parkway, Oxnard, CA 93033
800-235-5929 • 805-486-4565 • FAX 805-487-8911 • www.condorpower.com

# CPCI SERIES 150 to 350 WATTS, AC INPUT WITH PFC, QUAD OUTPUT, HOT SWAP

## SPECIFICATIONS

**AC INPUT:** 90-264 Vac continuous range, 47 to 63 Hz.

**POWER FACTOR:** 0.99 typical at full load. Meets EN61000-3-2.

**INRUSH:**

**CPCI-154, 204 MODELS:** Cold start ac current is less than 15 A at 115 Vac, and 30 A at 230 Vac. Limited by thermistor.

**CPCI-354 MODELS:** Cold start ac current is less than 30 A at 115 Vac, and 60 A at 230 Vac. Limited by thermistor.

**BROWNOUT PROTECTION:** Holds regulation to 85 Vac (30 seconds maximum)

**HOLDUP TIME:** 16 ms minimum after removal of power at full load. 10 ms minimum for CPCI 200s.

**EFFICIENCY:** 70% typical.

**EMI: CONDUCTED RFI**
Meets FCC Part 15, Subpart J, class B;
EN55022 class A; CISPR 22 class B.
All 150 W and 200 W models class A

**FAIL# SIGNAL**: TTL compatible signal. Signal goes low under the following conditions:

**CPCI-154 & CPCI-204 Models (all connector types):**
Outputs #1 or #2 fail; an overcurrent condition on outputs #1, #2, or #3; an overtemperature shutdown; an overvoltage shutdown; or an ac input failure (5ms warning before outputs shutdown).

**CPCI-354 & CPCI-354T Models:**
Any of 4 outputs fail; an overtemperature shutdown; an overvoltage shutdown; or an ac input failure (5ms warning before outputs shut down).

## AC INPUT

| Model | Power | Output 1 | Output 2 | Output 3 | Output 4 | Min. Load on V1* | Maximum Output From V1 & V2 |
|---|---|---|---|---|---|---|---|
| CPCI-154-1203 | 150 W | 5.0 V @ 25A | 3.3 V @ 20 A | 12 V @ 5.5 A | -12 V @ 0.5 A | 2.5 A | 25 A |
| CPCI-154-1203M | 150 W | 5.0 V @ 25 A | 3.3 V @ 20 A | 12 V @ 5.5 A | -12 V @ 0.5 A | 2.5 A | 25 A |
| CPCI-204-1203 | 200 W | 5.0 V @ 25 A | 3.3V @ 30 A | 12 V @ 5.5 A | -12 V @ 0.5 A | 3.0 A | 35 A |
| CPCI-204-1203M | 200 W | 5.0 V @ 25 A | 3.3 V @ 25 A | 12 V @ 5.5 A | -12 V @ 0.5 A | 2.5 A | 35 A |
| CPCI-354-1203 | 350 W | 5.0 V @ 50 A | 3.3 V @ 40 A | 12 V @ 12 A | -12 V @ 4 A | 5.0 A | 65 A |
| CPCI-354T-1203 | 350 W | 5.0 V @ 50 A | 3.3 V @ 40 A | 12 V @ 12 A | -12 V @ 4 A | 5.0 A | 65 A |

***** For full output current capability on V2, V3, V4.

# DPCI SERIES 150 to 350 WATTS, QUAD OUTPUT, 48 VDC INPUT, HOT SWAP

## SPECIFICATIONS

**DC INPUT:** 36-72 Vdc

**EFFICIENCY:** 75% typical

**FAIL# SIGNAL:** TTL compatible signal. Signal goes low under the following conditions: Any of 4 outputs fail; an overtemperature shutdown; or an overvoltage shutdown.

## 48 VDC INPUT

| Model | Power | Output 1 | Output 2 | Output 3 | Output 4 | Min. Load on V1* | Maximum Output From V1 & V2 |
|---|---|---|---|---|---|---|---|
| DPCI-154-1203 | 150 W | 5 V @ 25 A | 3.3 V @ 20 A | 12 V @ 5.5 A | -12 V @ 0.5 A | 2.5 A | 25 A |
| DPCI-154-1203M | 150 W | 5 V @ 25 A | 3.3 V @ 20 A | 12 V @ 5.5 A | -12 V @ 0.5 A | 2.5 A | 25 A |
| DPCI-204-1203 | 200 W | 5 V @ 25 A | 3.3 V @ 30 A | 12 V @ 5.5 A | -12 V @ 0.5 A | 3.0 A | 35 A |
| DPCI-204-1203M | 200 W | 5 V @ 25 A | 3.3 V @ 25 A | 12 V @ 5.5 A | -12 V @ 0.5 A | 2.5 A | 35 A |
| DPCI-354-1203 | 350 W | 5 V @ 50 A | 3.3 V @ 40 A | 12 V @ 12 A | -12 V @ 4 A | 5.0 A | 65 A |
| DPCI-354T-1203 | 350 W | 5 V @ 50 A | 3.3 V @ 40 A | 12 V @ 12 A | -12 V @ 4 A | 5.0 A | 65 A |

***** For full output current capability on V2, V3, V4.

# GENERAL SPECIFICATIONS

## OUTPUT

**LINE & LOAD REGULATION:**
± 2% over input range and 0 to 100% load change.

**RIPPLE & NOISE**
1% p-p or 50 mV, whichever is greater.
Measured at mating connector with 20 µF

**REMOTE SENSE**
Open sense lead protection

**TEMPERATURE COEFFICIENT**
(Outputs #1 and 2): 0.03% per degree centigrade

**STABILITY**
0.1% over 8 hours after 30 minutes warm-up.

**TRANSIENT RESPONSE**
(Outputs #1 and 2): Output voltage returns to within 1% in less than 1 ms for a 50% load change. Peak transient does not exceed 5%.

**OVERVOLTAGE PROTECTION**
(Outputs #1 and #2): Protects load against power supply induced overvoltage. Trip-point is factory set so that output voltage cannot exceed 136% of nominal. Input power must be recycled to reset.

**OVERLOAD PROTECTION**
All outputs are protected against overload and short circuit, Automatic recovery upon removal of fault.

**DEG# SIGNAL :**
TTL compatible signal. Signal goes low 20ºC before an overtemperature shutdown.

**FAIL LED :**
Amber LED illuminates upon a failure condition as per the CPCI and DPCI series specifications.

**STATUS LED :**
Green LED illuminates with no presence of any failure condition.

**REMOTE ENABLE**
Contact closure to common turns on dc outputs.
Recessed pin for "make last, break first" connection.

**REMOTE INHIBIT**
Contact closure to the negative sense line or a TTL level "0" turns off dc outputs.

**REDUNDANCY**
Built-in ORing diodes, slope program current sharing on all outputs, and self aligning connector provide hot swap and N+1 capabilities. Current sharing remains within 10% of the unit's full output rating while units are in thermal equilibrium.

**REVERSE VOLTAGE**
Protected against reverse voltage up to supply current rating. except for reverse voltage on output #4 on CPCI-200.

## ENVIRONMENTAL

**COOLING**
15 cfm, 400 lfm airflow required for cooling.

**OUTPUT ISOLATION**
Isolated from ground 50 Vdc (leakage current <20 µA)

**THERMAL PROTECTION**
Shuts down power supply if overheated.
Automatic recovery.

**TEMPERATURE RANGE**
0 to 40º centigrade at full ratings; derate 2.5% per degree centigrade from 40º to 70º centigrade.
Unit will start up at -20º centigrade.

## MISCELLANEOUS

**SAFETY AGENCY APPROVALS**
Models are approved to UL1950; CSA 22.2 #234; IEC 950 and TUV EN60950, Class 1 SELV., CE 72/23/EEC/93/68EEC (low voltage directive).

**GUARANTEED FOR 2 YEARS**
Two year guarantee includes labor and parts. Guarantee applies to operation at full published specifications at the end of 2 years.

## OPTIONS

**LOW LEAKAGE**

**(CPCI Models only)**
"L" option: Leakage current less than 0.5 mA per unit. Will require additional filtering for compliance to EMI specifications.

## MECHANICAL DIMENSIONS

**CPCI-154, CPCI-204, DPCI-154 & DPCI-204 Models**:
3U H x 8HP W, 160 mm board depth (see outline drawing). Utilizes a 47 pin modular connector in accordance with PICMG® Power Interface Specification 2.11.

**CPCI-154M, CPCI-204M, DPCI-154M & DPCI-204M Models:**
3U H x 8HP W, 160 mm board depth (see outline drawing). Utilizes a DIN "M" connector as referenced in the PICMG® Power Interface Specification 2.11.

**CPCI-354, DPCI-354 Models:**
6U H x 8HP W, 160 mm board depth (see outline drawing). Utilizes a 38 pin modular connector as referenced in the PICMG® Power Interface Specification 2.11.

**CPCI-354T, DPCI-354T Models:**
6U H x 8HP W, 160 mm board depth (see outline drawing). Utilizes a 47 pin modular connector in accordance with PICMG® Power Interface Specification 2.11.

# POWER SUPPLY PIN ASSIGNMENTS

### Model: CPCI-354-1203

Connector: Positronics PCI38M400A1
Mating Connector: PCI38F300A1

| Pin No. | Designation | Pin No. | Designation |
|---|---|---|---|
| 1 | +5 V | 20 | Not Used |
| 2 | +5 V | 21 | -12 V |
| 3 | +5 V | 22* | GND |
| 4 | +5 V | 23 | GND |
| 5 | GND | 24 | +5 V Sense |
| 6 | GND | 25* | Enable |
| 7 | GND | 26 | Sense Return |
| 8 | GND | 27 | +3.3 V Sense |
| 9 | GND | 28* | Not Used |
| 10 | GND | 29 | DEG# |
| 11 | GND | 30 | +12 V Sense |
| 12 | GND | 31 | Inhibit |
| 13 | +3.3 V | 32 | Not Used |
| 14 | +3.3 V | 33 | Not Used |
| 15 | +3.3 V | 34 | Not Used |
| 16 | +3.3 V | 35 | Fail # |
| 17 | GND | 36** | Safety Ground |
| 18 | +12 V | 37 | Ac Neutral |
| 19 | Not Used | 38 | Ac Line |

* Pins 22,25, and 28 are last mate, first break pins.
** Pin 36 is a first mate, last break pin.

### Model: DPCI-354-1203

Connector: Positronics PCI38M400A1
Mating Connector: PCI38F300A1

| Pin No. | Designation | Pin No. | Designation |
|---|---|---|---|
| 1 | +5 V | 20 | Not Used |
| 2 | +5 V | 21 | -12 V |
| 3 | +5 V | 22* | GND |
| 4 | +5 V | 23 | GND |
| 5 | GND | 24 | +5 V Sense |
| 6 | GND | 25* | Enable |
| 7 | GND | 26 | Sense Return |
| 8 | GND | 27 | +3.3 V Sense |
| 9 | GND | 28* | Not Used |
| 10 | GND | 29 | DEG# |
| 11 | GND | 30 | +12 V Sense |
| 12 | GND | 31 | Inhibit |
| 13 | +3.3 V | 32 | Not Used |
| 14 | +3.3 V | 33 | Not Used |
| 15 | +3.3 V | 34 | Not Used |
| 16 | +3.3 V | 35 | Fail # |
| 17 | GND | 36** | Safety Ground |
| 18 | +12 V | 37 | -48 Vdc Input Return |
| 19 | Not Used | 38 | -48 Vdc Input |

* Pins 22, 25, and 28 are last mate, first break pins.
** Pins 36 is a first mate, last break pin.

### Model: CPCI-354T-1203
### CPCI-154-1203
### CPCI-204-1203

Connector: Positronics PCI47M400A1
Mating Connector: PCI47F300A1

| Pin No. | Designation | Pin No. | Designation |
|---|---|---|---|
| 1 | +5 V | 25 | Not Used |
| 2 | +5 V | 26 | Not Used |
| 3 | +5 V | 27* | Enable |
| 4 | +5 V | 28 | Not Used |
| 5 | GND | 29 | Not Used |
| 6 | GND | 30 | +5 V Sense |
| 7 | GND | 31 | Not Used |
| 8 | GND | 32 | Not Used |
| 9 | GND | 33 | +3.3 V Sense |
| 10 | GND | 34 | Sense Return |
| 11 | GND | 35 | Not Used |
| 12 | GND | 36 | +12 V Sense |
| 13 | +3.3 V | 37 | Not Used |
| 14 | +3.3 V | 38 | DEG# |
| 15 | +3.3 V | 39 | Inhibit |
| 16 | +3.3 V | 40 | Not Used |
| 17 | +3.3 V | 41 | Not Used |
| 18 | +3.3 V | 42 | Fail # |
| 19 | GND | 43 | Not Used |
| 20 | +12 V | 44 | Not Used |
| 21 | -12 V | 45** | Safety Ground |
| 22 | GND | 46 | Ac Neutral |
| 23 | Not Used | 47 | Ac Line |
| 24 | GND | | |

* Pin 27 is a last mate, first break pin.
** Pin 45 is a first mate, last break pin.

### Model: DPCI-354T-1203
### DPCI-154-1203
### DPCI-204-1203

Connector: Positronics PCI47M400A1
Mating Connector: PCI47F300A1

| Pin No. | Designation | Pin No. | Designation |
|---|---|---|---|
| 1 | +5 V | 25 | Not Used |
| 2 | +5 V | 26 | Not Used |
| 3 | +5 V | 27* | Enable |
| 4 | +5 V | 28 | Not Used |
| 5 | GND | 29 | Not Used |
| 6 | GND | 30 | +5 V Sense |
| 7 | GND | 31 | Not Used |
| 8 | GND | 32 | Not Used |
| 9 | GND | 33 | +3.3 V Sense |
| 10 | GND | 34 | Sense Return |
| 11 | GND | 35 | Not Used |
| 12 | GND | 36 | +12 V Sense |
| 13 | +3.3 V | 37 | Not Used |
| 14 | +3.3 V | 38 | DEG# |
| 15 | +3.3 V | 39 | Inhibit |
| 16 | +3.3 V | 40 | Not Used |
| 17 | +3.3 V | 41 | Not Used |
| 18 | +3.3 V | 42 | Fail # |
| 19 | GND | 43 | Not Used |
| 20 | +12 V Output | 44 | Not Used |
| 21 | -12 V Output | 45** | Safety Ground |
| 22 | GND | 46 | -48 Vdc Input Return |
| 23 | Not Used | 47 | -48 Vdc Input |
| 24 | GND | | |

* Pin 27 is a last mate, first break pin.
** Pin 45 is a first mate, last break pin.

### Model: CPCI-154-1203M
### CPCI-204-1203M

Male Connector: DIN 41612 Type “M”
Mating Connector: ERNI #914374 or AMP#148370

| Pin No. | Designation | Pin No. | Designation |
|---|---|---|---|
| A13 | Not Used | B17 | +3.3 V |
| A14 | Inhibit | B18 | +3.3 V |
| A15 | Not Used | B19 | +12 V Output |
| A16 | Sense Return | B20 | -12 V Output |
| A17 | +5 V Sense | B22 | +5 V |
| A18 | +3.3 V Sense | B25 | GND |
| A19 | +12 V Output | B28 | Not Used |
| A20 | -12 V Output | B31 | Not Used |
| B2 | Ac Line | C13 | Enable |
| B5 | Ac Neutral | C14 | DEG# |
| B8 | Not Used | C15 | Fail # |
| B11 | Chassis Ground | C16 | +3.3 V |
| B13 | +3.3 V | C17 | +3.3 V |
| B14 | +3.3 V | C18 | +3.3 V |
| B15 | +3.3 V | C19 | +12 V Ouput |
| B16 | +3.3 V | C20 | -12 V Ouput |

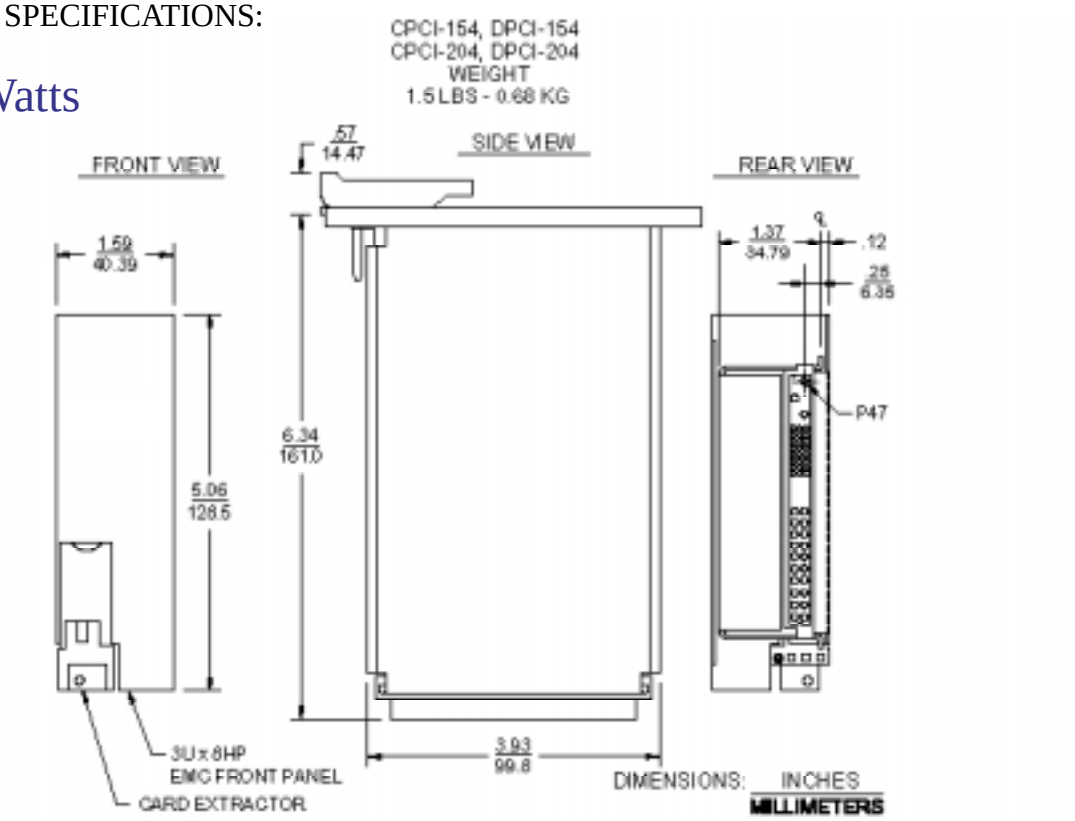
### Model: DPCI-154-1203M
### DPCI-204-1203M

Male Connector: DIN 41612 Type “M”
Mating Connector: ERNI #914374 or AMP#148370

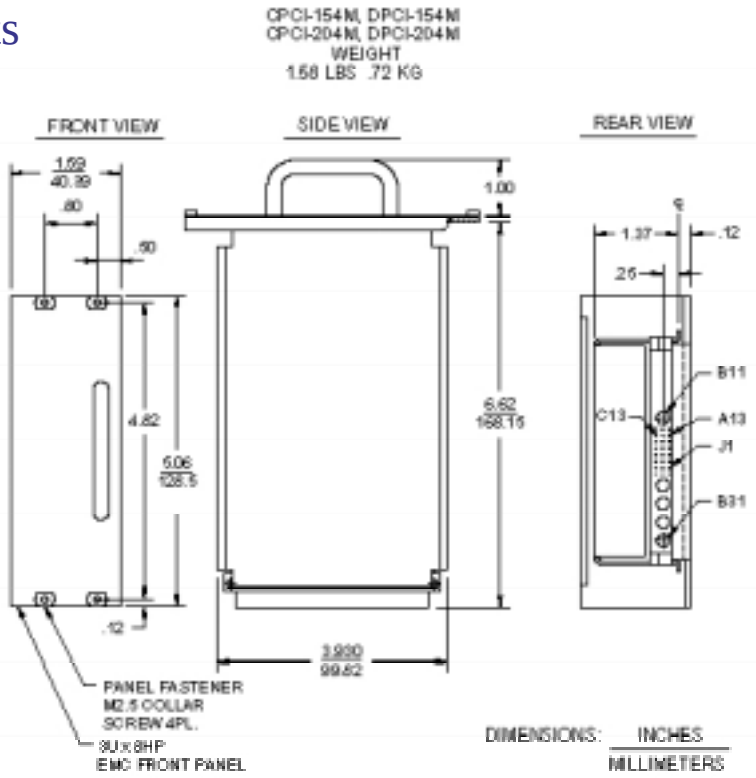
| Pin No. | Designation | Pin No. | Designation |
|---|---|---|---|
| A13 | Not Used | B17 | +3.3 V |
| A14 | Inhibit | B18 | +3.3 V |
| A15 | Not Used | B19 | +12 V Output |
| A16 | Sense Return | B20 | -12 V Output |
| A17 | +5 V Sense | B22 | +5 V |
| A18 | +3.3 V Sense | B25 | GND |
| A19 | +12 V Output | B28 | -48 Vdc Input Return |
| A20 | -12 V Output | B31 | -48 Vdc Input |
| B2 | Not Used | C13 | Enable |
| B5 | Not Used | C14 | DEG# |
| B8 | Not Used | C15 | Fail # |
| B11 | Chassis Ground | C16 | +3.3 V |
| B13 | +3.3 V | C17 | +3.3 V |
| B14 | +3.3 V | C18 | +3.3 V |
| B15 | +3.3 V | C19 | +12 V Output |
| B16 | +3.3 V | C20 | -12 V Output |

MECHANICAL SPECIFICATIONS:

## 150-200 Watts

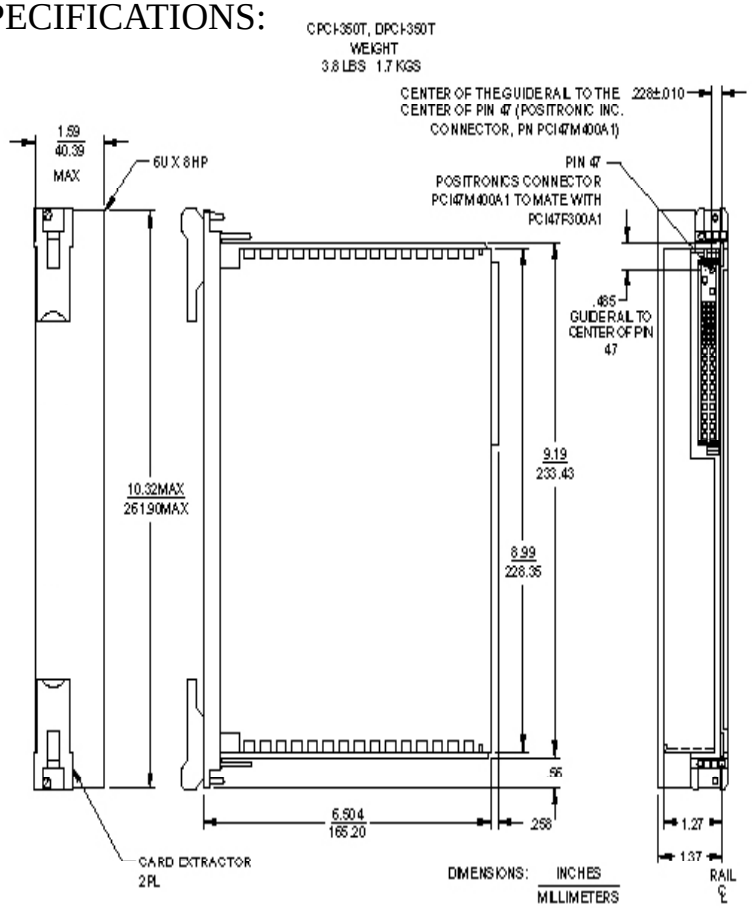



## 150-200 Watts

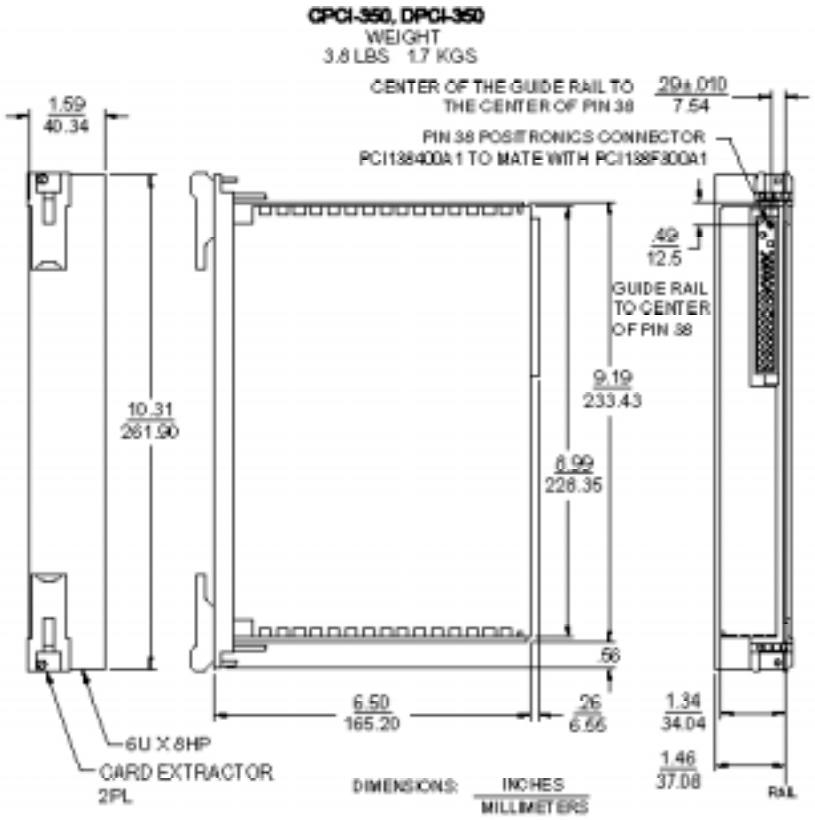


MECHANICAL SPECIFICATIONS:

## 350 Watts




## 350 Watts



Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

**Наши контакты:**

**Телефон:** +7 812 627 14 35

**Электронная почта:** sales@st-electron.ru

**Адрес:** 198099, Санкт-Петербург, Промышленная ул, дом № 19, литера Н, помещение 100-Н Офис 331