



**AC/DC DC/DC**  
**POWER CONVERSION**



**OLFER**

*The Power Supply Company*

POWER MATE TECHNOLOGY CO., LTD.

# Company Profile

**Company Name :** Power Mate Technology Co.,Ltd.

**Brand Name :**  P-DUKE

**Established :** June ,1992

**Company Address :** No.36, 22<sup>nd</sup> Rd., Taichung Industrial Park, Taichung City, Taiwan 40850

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**Main Business :** DC-DC Converters , AC-DC Power Supplies, P-DUKE standard products and customized devices, Powered high-end applications in Military, Transportation, Communications, Electronics/Industrial Equipment, Healthcare and Green power (energy) industries, etc.

## Quality Compliance and Safety Approvals

- ISO 9001:2008 factory certificated and UL/CB/CE products safety approvals
- MIL-STD-105E Inspection Level II and 100% process are succeed for burn-in & ATE testing
- Production qualified to IPC-A-610, RoHS and REACH compliance
- EN50155 & EN61373 test certificated for railway special aspect solution of power devices
- IEC 60601-1 3rd edition and ANSI/AAMI ES60601-1 certificated for medical special aspect solution of power devices
- Under UL file for details with ISO 14971 Risk Management Report

## P-DUKE Global Sales and Marketing Service

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(Business: Sales/Marketing, Research/Development, Production/Logistic)



### USA Branch Company (L.A.)

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(Business: Sales/Marketing)



### China Factory (Wu Xi)

Power Mate Wu Xi Technology Ltd.

(Business: Production)

## We are Proud and Offering

1. ISO-9001:2008 and additional safety files with further details of ISO-14971 Risk Management Report or EN50155 test report meets to withstand the critical applications.
2. Excellent in-house design, professional application engineers and high experienced marketing FAE staff from a variety of backgrounds provide customers with a complete expertise and support, not only on electronic characteristic technology but on mechanical or application match.
3. Specialize in design and deep application know-how sense to understand the central requests from customers. Deliver power solutions either P-DUKE standard products or tailored proposal especially for customers' own needs.
4. Global view-local touch takes into consideration the local needs, Just-In-Time response system as well as efficient after service.

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## DC-DC Converters

### SMALL SIZE & LOW PROFILE PACKAGE ( 1~6W ) ISOLATED DC-DC CONVERTERS



| Series               | Output Power | Input Voltage Range (VDC)                          | Output Voltage (VDC)                  | Isolation Voltage    | Eff. | Operating Temp. | Package    | Dimensions                           | Safety Approval |
|----------------------|--------------|--|---------------------------------------|----------------------|------|-----------------|------------|--------------------------------------|-----------------|
| DUR01                | 1W           | 3.3, 5, 9, 12, 15, 24 (±10%)                       | 3.3, 5, 9, 12, 15                     | 1000 VDC             | 80%  | -40°C~+85°C     | SIP        | 0.45"x0.24"x0.40"<br>11.5x6.0x10.2mm | CE              |
| DU1P0                | 1W           | 5, 12, 15, 24 (±10%)                               | 5, 12, 15<br>±5, ±12, ±15             | 1000 VDC<br>3000 VDC | 82%  | -25°C~+85°C     | SIP        | 0.77"x0.24"x0.40"<br>19.6x6.1x10.2mm | UL,CB,CE        |
| SDS01<br>SDH01       | 1W           | 4.5~9, 9~18, 18~36, 36~75                          | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15    | 1600 VDC<br>3000 VDC | 83%  | -40°C~+90°C     | SMD<br>DIP | 0.52"x0.36"x0.40"<br>13.2x9.1x10.2mm | CE              |
| SDS02<br>SDH02       | 2W           | 4.5~9, 9~18, 18~36, 36~75                          | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15    | 1600 VDC<br>3000 VDC | 86%  | -40°C~+85°C     | SMD<br>DIP | 0.52"x0.36"x0.40"<br>13.2x9.1x10.2mm | CE              |
| PDS02(W)<br>PDH02(W) | 2W           | 4.5~9, 9~18, 18~36, 36~75<br>(4.5~18, 9~36, 18~75) | 3.3, 5, 9, 12, 15<br>±5, ±12, ±15     | 1600 VDC<br>3000 VDC | 84%  | -40°C~+85°C     | SMD<br>DIP | 0.74"x0.50"x0.33"<br>18.9x14.0x8.4mm | UL,CB,CE        |
| PDL02                | 2W           | 4.5~9, 9~18, 18~36, 36~75                          | 3.3, 5, 9, 12, 15<br>±5, ±12, ±15     | 1600 VDC<br>3000 VDC | 84%  | -40°C~+85°C     | SIP        | 0.86"x0.36"x0.44"<br>21.8x9.1x11.2mm | UL,CB,CE        |
| PDS03(W)<br>PDH03(W) | 3W           | 4.5~9, 9~18, 18~36, 36~75<br>(4.5~18, 9~36, 18~75) | 3.3, 5, 9, 12, 15<br>±5, ±12, ±15     | 1600 VDC<br>3000 VDC | 83%  | -40°C~+85°C     | SMD<br>DIP | 0.74"x0.50"x0.33"<br>18.9x14.0x8.4mm | UL,CB,CE        |
| PDL03(W)             | 3W           | 4.5~9, 9~18, 18~36, 36~75<br>(4.5~18, 9~36, 18~75) | 3.3, 5, 9, 12, 15<br>±5, ±12, ±15     | 1600 VDC<br>3000 VDC | 85%  | -40°C~+85°C     | SIP        | 0.86"x0.36"x0.44"<br>21.8x9.1x11.2mm | UL,CB,CE        |
| PDL06(W)             | 6W           | 4.5~9, 9~18, 18~36, 36~75<br>(9~36, 18~75)         | 3.3, 5, 9, 12, 15, 24<br>±5, ±12, ±15 | 1600 VDC<br>3000 VDC | 88%  | -40°C~+85°C     | SIP        | 0.86"x0.36"x0.44"<br>21.8x9.1x11.2mm | UL,CB,CE        |

### DIP24 PACKAGE ( 3~15W ) ISOLATED DC-DC CONVERTERS



| Series   | Output Power | Input Voltage Range (VDC)                   | Output Voltage (VDC)                               | Isolation Voltage    | Eff. | Operating Temp. | Package      | Dimensions                            | Safety Approval     |
|----------|--------------|---|--|----------------------|------|-----------------|--------------|---------------------------------------|---------------------|
| FKC03    | 3W           | 9~18, 18~36, 36~75                          | 3.3, 5, 12, 15<br>±5, ±12, ±15                     | 1600 VDC             | 82%  | -40°C~+85°C     | SMD<br>DIP24 | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE            |
| MKC03    | 3W           | 9~18, 18~36, 36~75                          | 3.3, 5, 12, 15<br>±5, ±12, ±15<br>Vo1&Vo2: 5/12/15 | 500 VDC              | 80%  | -40°C~+85°C     | SMD<br>DIP24 | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE            |
| MOP03(W) | 3W           | 4.5~9, 9~18, 18~36, 36~75<br>(9~36, 18~75)  | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15                 | 3000 VAC             | 87%  | -40°C~+94°C     | DIP24        | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB<br>CE,FCC     |
| MPP03(W) | 3W           | 4.5~9, 9~18, 18~36, 36~75<br>(9~36, 18~75)  | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15                 | 5000 VAC             | 87%  | -40°C~+94°C     | DIP24        | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB<br>CE,FCC     |
| PFKC03   | 3W           | 4.5~6, 9~18, 18~36, 36~75                   | 3.3, 5, 12, 15<br>±5, ±12, ±15                     | 1600 VDC<br>3000 VDC | 80%  | -25°C~+85°C     | SMD<br>DIP24 | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE            |
| PMKC03   | 3W           | 4.5~6, 9~18, 18~36, 36~75                   | 3.3, 5, 12, 15<br>±5, ±12, ±15<br>Vo1&Vo2: 5/12/15 | 1600 VDC             | 80%  | -25°C~+85°C     | SMD<br>DIP24 | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE            |
| FKC05(W) | 5W           | 9~18, 18~36, 36~75<br>(9~36, 18~75)         | 3.3, 5, 12, 15<br>±5, ±12, ±15                     | 1600 VDC             | 84%  | -40°C~+85°C     | SMD<br>DIP24 | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE            |
| PFKC05   | 5W           | 9~18, 18~36, 36~75                          | 3.3, 5, 12, 15<br>±5, ±12, ±15                     | 1600 VDC<br>3000 VDC | 81%  | -25°C~+85°C     | SMD<br>DIP24 | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE            |
| MOP06(W) | 6W           | 4.5~9, 9~18, 18~36, 36~75<br>(9~36, 18~75)  | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15                 | 3000 VAC             | 89%  | -40°C~+88°C     | DIP24        | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB<br>CE,FCC     |
| MPP06(W) | 6W           | 4.5~9, 9~18, 18~36, 36~75<br>(9~36, 18~75)  | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15                 | 5000 VAC             | 89%  | -40°C~+88°C     | DIP24        | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB<br>CE,FCC     |
| FKC08(W) | 8W           | 9~18, 18~36, 36~75<br>(9~36, 18~75, 43~160) | 3.3, 5, 12, 15<br>±5, ±12, ±15                     | 1600 VDC             | 88%  | -40°C~+85°C     | SMD<br>DIP24 | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE<br>EN50155 |
| MOP10(W) | 10W          | 4.5~9, 9~18, 18~36, 36~75<br>(9~36, 18~75)  | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15                 | 3000 VAC             | 89%  | -40°C~+85°C     | DIP24        | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB<br>CE,FCC     |
| MPP10(W) | 10W          | 4.5~9, 9~18, 18~36, 36~75<br>(9~36, 18~75)  | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15                 | 5000 VAC             | 89%  | -40°C~+85°C     | DIP24        | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB<br>CE,FCC     |
| FKC12(W) | 12W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)         | 2.5, 3.3, 5.1, 12, 15<br>±5, ±12, ±15              | 1600 VDC             | 88%  | -40°C~+85°C     | SMD<br>DIP24 | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE            |
| FKC15(W) | 15W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)         | 3.3, 5.1, 12, 15<br>±5, ±12, ±15                   | 1600 VDC             | 91%  | -40°C~+85°C     | DIP24        | 1.25"x0.80"x0.40"<br>31.8x20.3x10.2mm | UL,CB,CE            |

## 1" X 1" PACKAGE ( 10~30W ) ISOLATED DC-DC CONVERTERS



| Series   | Output Power | Input Voltage Range (VDC)           | Output Voltage (VDC)                | Isolation Voltage | Eff. | Operating Temp. | Package    | Dimensions                            | Safety Approval |
|----------|--------------|-------------------------------------|-------------------------------------|-------------------|------|-----------------|------------|---------------------------------------|-----------------|
| LCD10(W) | 10W          | 9~18, 18~36, 36~75<br>(9~36, 18~75) | 3.3, 5, 12, 15, 24<br>±5, ±12, ±15  | 1600 VDC          | 91%  | -40°C~+85°C     | DIP        | 1.00"x1.00"x0.39"<br>25.4x25.4x9.9 mm | UL,CB,CE        |
| LCD15(W) | 15W          | 9~18, 18~36, 36~75<br>(9~36, 18~75) | 3.3, 5, 12, 15<br>±5, ±12, ±15      | 1600 VDC          | 89%  | -40°C~+85°C     | DIP        | 1.00"x1.00"x0.39"<br>25.4x25.4x9.9 mm | UL,CB,CE        |
| LED15(W) | 15W          | 18~36, 36~75<br>(9~36, 18~75)       | 3.3, 5, 12, 15                      | 2250 VDC          | 88%  | -40°C~+85°C     | SMD<br>DIP | 1.10"x0.94"x0.33"<br>27.9x23.9x8.5 mm | UL,CB,CE        |
| LCD20(W) | 20W          | 9~18, 18~36, 36~75<br>(9~36, 18~75) | 3.3, 5, 12, 15<br>±12, ±15          | 1600 VDC          | 91%  | -40°C~+85°C     | DIP        | 1.00"x1.00"x0.39"<br>25.4x25.4x9.9 mm | UL,CB,CE        |
| LCD30(W) | 30W          | 9~18, 18~36, 36~75<br>(9~36, 18~75) | 3.3, 5, 12, 15, 24<br>±12, ±15, ±24 | 1600 VDC          | 93%  | -40°C~+85°C     | DIP        | 1.00"x1.00"x0.39"<br>25.4x25.4x9.9 mm | UL,CB,CE        |

## 2" X 1" PACKAGE ( 5~60W ) ISOLATED DC-DC CONVERTERS



| Series   | Output Power | Input Voltage Range (VDC)                           | Output Voltage (VDC)  | Isolation Voltage           | Eff. | Operating Temp. | Package | Dimensions                            | Safety Approval            |
|----------|--------------|---|---|-----------------------------|------|-----------------|---------|---------------------------------------|----------------------------|
| FDC05(W) | 5W           | 9~18, 18~36, 36~75<br>(9~36, 18~75)                 | 3.3, 5, 12, 15<br>±5, ±12, ±15  | 1600 VDC                    | 83%  | -40°C~+85°C     | DIP     | 2.00"x1.00"x0.40"<br>50.8x25.4x10.2mm | UL,CB,CE                   |
| FDC10(W) | 10W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)                 | 3.3, 5, 12, 15<br>±5, ±12, ±15  | 1600 VDC                    | 87%  | -40°C~+85°C     | DIP     | 2.00"x1.00"x0.40"<br>50.8x25.4x10.2mm | UL,CB,CE                   |
| FEC15(W) | 15W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)                 | 3.3, 5, 5.1, 12, 15<br>±5, ±12, ±15   | 1600 VDC                    | 88%  | -40°C~+85°C     | DIP     | 2.00"x1.00"x0.40"<br>50.8x25.4x10.2mm | UL,CB,CE                   |
| FED20(W) | 20W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)                 | 1.5, 1.8, 2.5, 3.3, 5, 12, 15<br>±12, ±15                                       | 1600 VDC                    | 89%  | -40°C~+85°C     | DIP     | 2.00"x1.00"x0.40"<br>50.8x25.4x10.2mm | UL,CB,CE                   |
| RED20W   | 20W          | 9~36, 18~75, <b>43~160</b>                          | 3.3, 5, 12, 15,<br>±12, ±15   | 1600 VDC                    | 89%  | -40°C~+85°C     | DIP     | 2.00"x1.00"x0.40"<br>50.8x25.4x10.2mm | UL,CB,CE<br><b>EN50155</b> |
| FED30(W) | 30W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)                 | 1.5, 2.5, 3.3, 5, 5.1, 12, 15<br>±5, ±12, ±15<br>3.3/±12, 3.3/±15, 5/±12, 5/±15 | 1600 VDC                    | 91%  | -40°C~+85°C     | DIP     | 2.00"x1.00"x0.40"<br>50.8x25.4x10.2mm | UL,CB,CE                   |
| FED40(W) | 40W          | 9~18, 18~36, 36~75<br>(9~36, 18~75, <b>43~160</b> ) | 3.3, 5, 12, 15, 24<br>±12, ±15, ±24   | 1600 VDC<br><b>3000 VDC</b> | 92%  | -40°C~+85°C     | DIP     | 2.00"x1.00"x0.40"<br>50.8x25.4x10.2mm | Pending                    |
| FED60(W) | 60W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)                 | 3.3, 5, 12, 15, 24<br>±12, ±15, ±24   | 1600 VDC                    | 92%  | -40°C~+85°C     | DIP     | 2.00"x1.00"x0.40"<br>50.8x25.4x10.2mm | Pending                    |

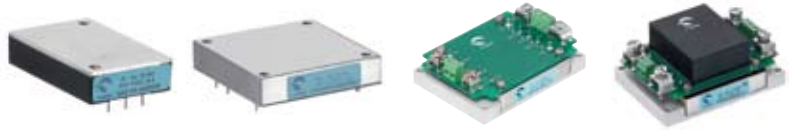
## 2" X 1.6" & 2" X 2" PACKAGE ( 15~60W ) ISOLATED DC-DC CONVERTERS



| Series   | Output Power | Input Voltage Range (VDC)            | Output Voltage (VDC)   | Isolation Voltage | Eff. | Operating Temp. | Package | Dimensions                            | Safety Approval |
|----------|--------------|--------------------------------------|--|-------------------|------|-----------------|---------|---------------------------------------|-----------------|
| FDC15    | 15W          | 9~36, 18~75                          | 5, 12, 15<br>±5, ±12, ±15  | 1600 VDC          | 82%  | -40°C~+85°C     | DIP     | 2.00"x1.60"x0.40"<br>50.8x40.6x10.2mm | UL,CB,CE        |
| FDC20(W) | 20W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)  | 3.3, 5, 12, 15<br>±5, ±12, ±15<br>3.3/±12, 3.3/±15, 5/±12, 5/±15                   | 1600 VDC          | 87%  | -40°C~+85°C     | DIP     | 2.00"x1.60"x0.40"<br>50.8x40.6x10.2mm | UL,CB,CE        |
| FEC30(W) | 30W          | 9~18, 18~36, 36~75<br>(10~40, 18~75) | 1.5, 1.8, 2.5, 3.3, 5, 12, 15<br>±12, ±15  | 1600 VDC          | 90%  | -40°C~+85°C     | DIP     | 2.00"x1.60"x0.40"<br>50.8x40.6x10.2mm | UL,CB,CE        |
| FEC40(W) | 40W          | 9~18, 18~36, 36~75<br>(9~36, 18~75)  | 1.5, 1.8, 2.5, 3.3, 5, 12, 15<br>±12, ±15, 3.3/5<br>3.3/±12, 3.3/±15, 5/±12, 5/±15 | 1600 VDC          | 90%  | -40°C~+85°C     | DIP     | 2.00"x2.00"x0.40"<br>50.8x50.8x10.2mm | UL,CB,CE        |
| FEC60    | 60W          | 18~36, 36~75                         | 3.3, 5, 12, 15, 24   | 1600 VDC          | 90%  | -40°C~+85°C     | DIP     | 2.00"x2.00"x0.40"<br>50.8x50.8x10.2mm | UL,CB,CE        |



## BRICK PACKAGE ( 75~255W ) ISOLATED DC-DC CONVERTERS



| Series    | Output Power | Input Voltage Range (VDC)                           | Output Voltage (VDC)           | Isolation Voltage    | Eff. | Operating Temp. | Package       | Dimensions                            | Safety Approval     |
|-----------|--------------|---|--------------------------------|----------------------|------|-----------------|---------------|---------------------------------------|---------------------|
| QAE100(W) | 108W         | 8.5~22, 16.5~36, 33~75<br>(8.5~36, 16.5~75, 40~160) | 3.3, 5, 12, 15, 24, 30, 48     | 3000 VAC             | 93%  | -40°C~+85°C     | Quarter Brick | 2.28"x1.45"x0.50"<br>57.9x36.8x12.7mm | Pending             |
| QAE150(W) | 150W         | 8.5~22, 16.5~36, 33~75<br>(8.5~36, 16.5~75, 40~160) | 3.3, 5, 12, 15, 24, 30, 48     | 3000 VAC             | 92%  | -40°C~+85°C     | Quarter Brick | 2.28"x1.45"x0.50"<br>57.9x36.8x12.7mm | Pending             |
| HAE75W    | 75W          | 9~36, 18~75, 43~160                                 | 3.3, 5, 12, 15, 24, 28, 48     | 2250 VDC<br>3000 VAC | 91%  | -40°C~+85°C     | Half Brick    | 2.40"x2.28"x0.50"<br>61.0x57.9x12.7mm | UL,CB,CE<br>EN50155 |
| HAE100(W) | 100W         | 9~18, 18~36, 36~75<br>(9~36, 18~75, 43~160)         | 3.3, 5, 12, 15, 24, 28, 48     | 2250 VDC<br>3000 VAC | 93%  | -40°C~+85°C     | Half Brick    | 2.40"x2.28"x0.50"<br>61.0x57.9x12.7mm | UL,CB,CE<br>EN50155 |
| HAE150(W) | 196W         | 8.5~22, 16.5~36, 33~75<br>(8.5~36, 16.5~75, 43~160) | 3.3, 5, 12, 15, 24, 28, 48, 53 | 2250 VDC<br>3000 VAC | 93%  | -40°C~+85°C     | Half Brick    | 2.40"x2.28"x0.50"<br>61.0x57.9x12.7mm | UL,CB,CE<br>EN50155 |
| HAE200(W) | 255W         | 8.5~22, 16.5~36, 33~75<br>(8.5~36, 16.5~75, 43~160) | 3.3, 5, 12, 15, 24, 28, 48, 53 | 2250 VDC<br>3000 VAC | 93%  | -40°C~+85°C     | Half Brick    | 2.40"x2.28"x0.50"<br>61.0x57.9x12.7mm | UL,CB,CE<br>EN50155 |

## NON-ISOLATED DC-DC CONVERTERS ( 1~30A )



| Series         | Output Power | Input Voltage Range (VDC) | Output Voltage (VDC)   | Eff.  | Operating Temp. | Package    | Dimensions                           | Safety Approval |
|----------------|--------------|---------------------------|--|-------|-----------------|------------|--------------------------------------|-----------------|
| ASR01          | 1A           | -7~-32                    | -5, -5.2, -6, -8, -9, -12, -15   | 96%   | -40°C~+85°C     | SIP        | 0.46"x0.30"x0.65"<br>11.7x7.5x16.5mm | CE              |
| NSR01          | 1A           | 4.6~36                    | 1.5, 1.8, 2.5, 3, 3.3, 5, 6.5, 9, 12, 15<br>-1.5, -1.8, -2.5, -3, -3.3, -5, -6.5, -9, -12, -15 | 95.5% | -40°C~+85°C     | SIP        | 0.46"x0.30"x0.40"<br>11.7x7.5x10.1mm | CE              |
| PSR1.0         | 1A           | 4.6~36                    | 1.2, 1.5, 1.8, 2.5, 3.3, 5, 6.5, 9, 12, 15   | 96%   | -40°C~+85°C     | SIP        | 0.46"x0.30"x0.40"<br>11.7x7.5x10.1mm | CE              |
| SSR01          | 1A           | 3.0~36                    | 2.5, 3.3, 5, 9, 12, 15<br>-3.3, -5, -9, -12, -15   | 95.5% | -40°C~+85°C     | SMD        | 0.60"x0.37"x0.29"<br>15.2x9.3x7.3mm  | CE              |
| OSR03          | 3A           | 2.5~30                    | 0.59 ~15<br>-0.59~-15  | 95%   | -40°C~+85°C     | SIP        | 0.37"x0.24"x0.61"<br>9.4x6.0x15.5mm  | CE              |
| DOS06<br>DOH06 | 6A           | 2.4~14                    | 0.75 ~5  | 94%   | -40°C~+85°C     | SMD<br>SIP | 0.80"x0.45"x0.21"<br>20.3x11.4x5.4mm | UL,CB,CE        |
| DOS10<br>DOH10 | 10A          | 2.4~14                    | 0.75~5   | 95%   | -40°C~+85°C     | SMD<br>SIP | 1.30"x0.53"x0.30"<br>33.0x13.5x7.6mm | UL,CB,CE        |
| DOS16<br>DOH16 | 16A          | 2.4~14                    | 0.75~5   | 95%   | -40°C~+85°C     | SMD<br>SIP | 1.30"x0.53"x0.30"<br>33.0x13.5x7.6mm | UL,CB,CE        |
| DOS30<br>DOH30 | 30A          | 4.5~14                    | 0.8~5.5  | 93%   | -40°C~+85°C     | SMD<br>SIP | 1.30"x0.53"x0.31"<br>33.0x13.5x7.8mm | CE              |

## WALL MOUNT TYPE ( 15~255W ) WITH SCREW TERMINAL BLOCK



| Series      | Output Power | Input Voltage Range (VDC)                           | Output Voltage (VDC)   | Isolation Voltage    | Eff. | Operating Temp. | Package    | Dimensions                             | Safety Approval     |
|-------------|--------------|---|--|----------------------|------|-----------------|------------|--|---------------------|
| UFEC15W     | 15W          | 9.5~36, 18 ~ 75                                     | 3.3, 5, 5.1, 12, 15<br>±5, ±12, ±15                              | 1600 VDC             | 87%  | -40°C~+85°C     | U-Chassis  | 4.00"x2.25"x0.75"<br>101.6x57.2x19.1mm | CE                  |
| UFED20(W)   | 20W          | 9.5~18, 18~36, 36~75<br>(9.5~36, 18~75)             | 3.3, 5, 12, 15<br>±5, ±12, ±15                                   | 1600 VDC             | 88%  | -40°C~+85°C     | U-Chassis  | 4.00"x2.25"x0.75"<br>101.6x57.2x19.1mm | CE                  |
| URED20W     | 20W          | 9.5~36, 18~75, 43~160                               | 3.3, 5, 12, 15<br>±12, ±15                                       | 1600 VDC             | 88%  | -40°C~+85°C     | U-Chassis  | 4.00"x2.25"x0.75"<br>101.6x57.2x19.1mm | CE                  |
| UFEC30(W)   | 30W          | 9.5~18, 18~36, 36~75<br>(10~40, 18~75)              | 3.3, 5, 12, 15, 24, 28<br>±12, ±15                               | 1600 VDC             | 89%  | -40°C~+85°C     | U-Chassis  | 4.00"x2.25"x0.75"<br>101.6x57.2x19.1mm | CE                  |
| UFEC40(W)   | 40W          | 9.5~18, 18~36, 36~75<br>(9.5~36, 18~75)             | 3.3, 5, 12, 15, 24, 28<br>±12, ±15, 3.3±12<br>3.3±15, 5±12, 5±15 | 1600 VDC             | 89%  | -40°C~+85°C     | U-Chassis  | 4.00"x2.25"x0.75"<br>101.6x57.2x19.1mm | CE                  |
| UFED40W     | 40W          | 9.5~36, 18~75, 43 ~ 160                             | 3.3, 5, 12, 15, 24<br>±12, ±15, ±24                              | 1600 VDC             | 91%  | -40°C~+85°C     | U-Chassis  | 4.00"x2.25"x0.75"<br>101.6x57.2x19.1mm | CE                  |
| UFEC60      | 60W          | 18~36, 36~75  | 3.3, 5, 12, 15, 24   | 1600 VDC             | 89%  | -40°C~+85°C     | U-Chassis  | 4.00"x2.25"x0.75"<br>101.6x57.2x19.1mm | CE                  |
| HAE75W-T    | 75W          | 9~36, 18~75, 43~160                                 | 3.3, 5, 12, 15, 24, 28, 48                                       | 2250 VDC<br>3000 VAC | 91%  | -40°C~+85°C     | Half Brick | 3.35"x2.40"x1.10"<br>85.1x61.0x27.9mm  | UL,CB,CE<br>EN50155 |
| HAE100(W)-T | 108W         | 9~18, 18~36, 36~75<br>(9~36, 18~75, 43~160)         | 3.3, 5, 12, 15, 24, 28, 48                                       | 2250 VDC<br>3000 VAC | 93%  | -40°C~+85°C     | Half Brick | 3.35"x2.40"x1.10"<br>85.1x61.0x27.9mm  | UL,CB,CE<br>EN50155 |
| HAE150(W)-T | 196W         | 8.5~22, 16.5~36, 33~75<br>(8.5~36, 16.5~75, 43~160) | 3.3, 5, 12, 15, 24, 28, 48, 53                                   | 2250 VDC<br>3000 VAC | 93%  | -40°C~+85°C     | Half Brick | 3.35"x2.40"x1.27"<br>85.1x61.0x32.3mm  | UL,CB,CE<br>EN50155 |
| HAE200(W)-T | 255W         | 8.5~22, 16.5~36, 33~75<br>(8.5~36, 16.5~75, 43~160) | 3.3, 5, 12, 15, 24, 28, 48, 53                                   | 2250 VDC<br>3000 VAC | 93%  | -40°C~+85°C     | Half Brick | 3.35"x2.40"x1.27"<br>85.1x61.0x32.3mm  | UL,CB,CE<br>EN50155 |
| WAF(D)150   | 150W         | 9~36, 18~75, 43~160                                 | 12, 15, 24, 28, 48   | 2250 VDC             | 89%  | -40°C~+85°C     | Enclosed   | 3.86"x2.07"x0.67"<br>98.0x52.5x17.0mm  | UL,CB,CE<br>EN50155 |

## DIN RAIL TYPE ( 15~60W ) WITH SCREW TERMINAL BLOCK



| Series    | Output Power | Input Voltage Range (VDC)                 | Output Voltage (VDC)   | Isolation Voltage | Eff. | Operating Temp. | Package  | Dimensions                             | Safety Approval |
|-----------|--------------|---|--|-------------------|------|-----------------|----------|--|-----------------|
| DFEC15W   | 15W          | 9.5~36, 18 ~ 75                           | 3.3, 5, 5.1, 12, 15<br>±5, ±12, ±15                                  | 1600 VDC          | 86%  | -40°C~+85°C     | Enclosed | 4.92"x2.27"x0.97"<br>124.9x57.6x24.5mm | CE              |
| DFED20(W) | 20W          | 9.5~18, 18~36, 36~75<br>(9.5~36, 18~75)   | 3.3, 5, 12, 15<br>±5, ±12, ±15                                       | 1600 VDC          | 87%  | -40°C~+85°C     | Enclosed | 4.92"x2.27"x0.97"<br>124.9x57.6x24.5mm | CE              |
| DFEC30(W) | 30W          | 9.5~18, 18~36, 36~75<br>(9.5~36, 18~75)   | 3.3, 5, 12, 15, 24, 28<br>±12, ±15                                   | 1600 VDC          | 88%  | -40°C~+85°C     | Enclosed | 4.92"x2.27"x0.97"<br>124.9x57.6x24.5mm | CE              |
| DFEC40(W) | 40W          | 9.5~18, 18~36, 36~75<br>(9.5~36, 36 ~ 75) | 3.3, 5, 12, 15, 24, 28<br>±12, ±15, 3.3/±12<br>3.3/±15, 5/±12, 5/±15 | 1600 VDC          | 87%  | -40°C~+85°C     | Enclosed | 4.92"x2.27"x0.97"<br>124.9x57.6x24.5mm | CE              |
| DFEC60    | 60W          | 18~36, 36~75                              | 3.3, 5, 12, 15, 24   | 1600 VDC          | 88%  | -40°C~+85°C     | Enclosed | 4.92"x2.27"x0.97"<br>124.9x57.6x24.5mm | CE              |

## AC-DC power supplies



### MEDICAL POWER SUPPLIES 2" x 3"(100W) & 2" x 4"(150W) PACKAGE

| Series | Output Power | Input Voltage Range         | Output Voltage (VDC)   | Isolation Voltage | Eff. | Operating Temp. | Package   | Dimensions                             | Safety Approval   |
|--------|--------------|-----------------------------|------------------------|-------------------|------|-----------------|-----------|--|-------------------|
| MAD100 | 100W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 4000 VAC          | 92%  | -25°C~+80°C     | Open      | 2.00"x3.00"x1.16"<br>50.8x76.2x29.5mm  | UL, CB<br>CE, FCC |
| MUD100 | 100W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 4000 VAC          | 92%  | -25°C~+80°C     | U Chassis | 2.44"x3.60"x1.54"<br>62.0x91.4x39.2mm  | UL, CB<br>CE, FCC |
| MED100 | 100W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 4000 VAC          | 92%  | -25°C~+80°C     | Enclosed  | 2.44"x3.60"x1.54"<br>62.0x91.4x39.2mm  | UL, CB<br>CE, FCC |
| MDD100 | 100W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 4000 VAC          | 92%  | -25°C~+80°C     | Din Rail  | 2.44"x3.60"x1.88"<br>62.0x91.4x47.9mm  | UL, CB<br>CE, FCC |
| MAF150 | 150W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 4000 VAC          | 92%  | -25°C~+80°C     | Open      | 2.00"x4.00"x1.16"<br>50.8x101.6x29.5mm | UL, CB<br>CE, FCC |
| MUF150 | 150W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 4000 VAC          | 92%  | -25°C~+80°C     | U Chassis | 2.44"x4.60"x1.54"<br>62.0x116.8x39.2mm | UL, CB<br>CE, FCC |
| MEF150 | 150W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 4000 VAC          | 92%  | -25°C~+80°C     | Enclosed  | 2.44"x4.60"x1.54"<br>62.0x116.8x39.2mm | UL, CB<br>CE, FCC |
| MDF150 | 150W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 4000 VAC          | 92%  | -25°C~+80°C     | Din Rail  | 2.44"x4.60"x1.88"<br>62.0x116.8x47.9mm | UL, CB<br>CE, FCC |



### I.T.E POWER SUPPLIES 2" x 3"(100W) & 2" x 4"(150W) PACKAGE

| Series | Output Power | Input Voltage Range         | Output Voltage (VDC)   | Isolation Voltage | Eff. | Operating Temp. | Package   | Dimensions                             | Safety Approval   |
|--------|--------------|-----------------------------|------------------------|-------------------|------|-----------------|-----------|--|-------------------|
| TAD100 | 100W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 3000 VAC          | 92%  | -40°C~+80°C     | Open      | 2.00"x3.00"x1.16"<br>50.8x76.2x29.5mm  | UL, CB, CE<br>FCC |
| TUD100 | 100W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 3000 VAC          | 92%  | -40°C~+80°C     | U Chassis | 2.44"x3.60"x1.54"<br>62.0x91.4x39.2mm  | UL, CB, CE<br>FCC |
| TED100 | 100W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 3000 VAC          | 92%  | -40°C~+80°C     | Enclosed  | 2.44"x3.60"x1.54"<br>62.0x91.4x47.9mm  | UL, CB, CE<br>FCC |
| TDD100 | 100W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 3000 VAC          | 92%  | -40°C~+80°C     | Din Rail  | 2.44"x3.60"x1.88"<br>62.0x91.4x39.2mm  | UL, CB, CE<br>FCC |
| TAF150 | 150W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 3000 VAC          | 92%  | -40°C~+80°C     | Open      | 2.00"x4.00"x1.16"<br>50.8x101.6x29.5mm | UL, CB, CE<br>FCC |
| TUF150 | 150W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 3000 VAC          | 92%  | -40°C~+80°C     | U Chassis | 2.44"x4.60"x1.54"<br>62.0x116.8x39.2mm | UL, CB, CE<br>FCC |
| TEF150 | 150W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 3000 VAC          | 92%  | -40°C~+80°C     | Enclosed  | 2.44"x4.60"x1.54"<br>62.0x116.8x39.2mm | UL, CB, CE<br>FCC |
| TDF150 | 150W         | 85~264VAC<br>(120 ~ 370VDC) | 12, 15, 24, 28, 36, 48 | 3000 VAC          | 92%  | -40°C~+80°C     | Din Rail  | 2.44"x4.60"x1.88"<br>62.0x116.8x47.9mm | UL, CB, CE<br>FCC |





**P-DUKE**

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