



Power Supplies, DC/DC Converters and CCFL Inverters

e-material
solution provider

 **TDK**



| | |
|--|-----------|
| AC/DC Power Supplies | 1 |
| DC/DC Converter | 8 |
| Value Added AC/DC & DC/DC | 18 |
| Inverter for LCD Backlight Applications | 20 |

Front-End Power Supplies

No.1 in the world in power density. AC/DC front-end power supply packaged in 1U rack size. 1000W max. with universal input.

FPS Series

FPS series will contribute to space saving on rack mount requirement in telecommunication and data communication equipment. Low profile, 3000W AC/DC front-end power supply in 1U/19" rack (by driving 3 units).



| Model | FPS-1000-48 | FPS-1000-32 | FPS-1000-24 |
|----------------------------|---|---------------|-------------|
| Nominal output voltage | 48V | 32V | 24V |
| Output voltage adj. range | 43V ~ 58V | 28.8V ~ 38.4V | 21.5V ~ 29V |
| Nominal output current | 21A | 31A | 40A |
| Maximum output power | 1008W | 992W | 960W |
| Input voltage | 85 - 265VAC, 47 ~ 63Hz, single phase | | |
| Efficiency (typ) | 85/88 % at 100/200VAC, maximum output power, Ta = 25°C | | |
| Protection | Over current protection, Over voltage protection, Over temperature protection | | |
| Front panel LED indicators | AC OK (green), DC OK (green), DC FAIL (red) | | |
| Operating ambient temp. | 0 ~ 50°C (byx internal Fans. Variable speed control) | | |
| Dimensions (W x H x D) | 127 x 41 x 290mm, refer to outline drawing | | |
| Interface | I ² C Interface bus: optional model (/S) | | |
| Front IEC inlet | Front IEC Inlet : optional model (/P) Standard: rear connector | | |



NV Series Configurable Power Supplies

This model is specially designed for distributed power architectures. It provides a 12V/29A (350W) main output with a additional 12V auxiliary supply. The unit has a class leading efficiency of 91%.

Compared with the NV-350 standard unit, the FEP has only a depth of 236mm (46mm shorter).

| Series | NV350-FEP |
|-------------------|-------------|
| Power | 350W |
| Number of outputs | 2 |
| Output voltage | 12V |
| input voltage | 90 - 264VAC |
| Format | closed case |
| Warranty | 3 years |

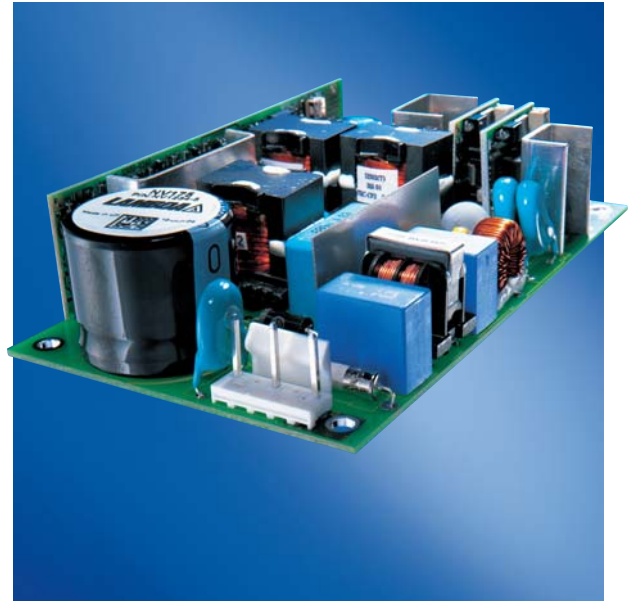


Configurable Power Supplies

NV Power 175/300 W

NV Power is based around a configurable planar transformer, and employs Multiple Efficiency Gain (MEG) technology to achieve its class leading efficiency for multiple output PSUs.

The TDK-Lambda approach is essentially a unique use of synchronous rectifiers in a resonant topology. The NV-300 and the NV-175 both boast class leading power densities: 6.6W/in³ for the sub 400W modular and 9.36W/in³ for the multi-output sub 200W supplies.

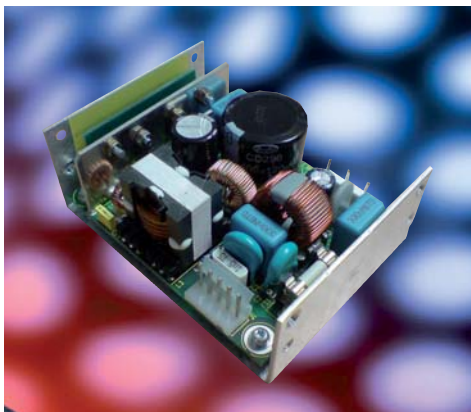


| Series | NV Power 175W | NV Power 300W |
|-------------------|--------------------------|--------------------------|
| Power | 175/200W | 300W |
| Number of outputs | 1 - 5 | 1 - 5 |
| Output voltage | 1.5 - 28 | 1.5 - 28 |
| Format | Open frame / closed case | Open frame / closed case |
| Warranty | 3 years | 3 years |

Additional outputs will be available soon. Please ask our Technical Sales for status.



NV175 is available with integrated temperature controlled cooling fan.



A DC input module (36-32 volts DC input 220 volts DC output at 225W) is available for use with the NV 175 series.

Modular Power Supplies

NV Power 350/700 W

| Series | NV Power 350W | NV Power 700W |
|-------------------|--------------------------|--------------------------|
| Power | 350W | 700W |
| Number of outputs | 1 – 6 | 1 – 8 |
| Output voltage | 3.2 – 32V | 3.2 – 32V |
| Format | Open frame / closed case | Open frame / closed case |
| Warranty | 3 years | 3 years |

Additional outputs will be available soon. Please ask our Technical Sales for status.



Vega Lite

Vega Lite is the furious improvement of the existing Vega range. The output power increased to 500 watts and 700 watts (up to 900 watts at highline-input) within the same case.

Vega Lite offers up to 11 outputs in a range between 1.8V and 56V with industry leading power density.

Worldwide safety approvals and CB-reports for industrial and medical Safety standards enables this power supply to be used in a brought range of industrial and medical applications.

| Series | Vega Lite |
|-------------------------|---------------------------|
| Power | 550, 750W |
| Power at highline input | 700, 900W |
| Number of outputs | 1 - 11 |
| Output voltage | 1.8 - 56V |
| Input voltage | Wide range 85 - 265VAC |
| Input voltage highline | 170 - 265 VAC |
| Format | Closed case |
| Warranty | 3 years |



Modular & Triple Output Power Supplies

Alpha

Alpha is a real “powerpack”, with our 1500W model offering up to 16 different outputs, with voltage ranging from 1.8 to 48V. The 1000W and 1500W power ranges available cover a wide range of applications. Fast-On terminals ensure quick installation of Alpha into customers' applications.



| | |
|-------------------|---------------------------|
| Series | Alpha |
| Power | 1000, 1500W |
| Number of outputs | 1 - 16 |
| Output voltage | 2 - 48V |
| Input voltage | Wide range 85 - 265VAC |
| Format | Closed case |
| Warranty | 3 years |

MTW Series Triple Output Power Supplies

The MTW series of 15 to 60W low profile triple output units fit within the 1U rack format.



| Part No. | MTW15-51212 | MTW30-51212 | MTW60-51212 |
|--------------------|----------------|-----------------|----------------|
| Output voltage (V) | Current (A) | Current (A) | Current (A) |
| V1= +5.0 | 2.0 (Peak 3.0) | 3.0 (Peak 4.5) | 5.0 (Peak 7.0) |
| V2= +12.0 | 0.3 (Peak 0.6) | 1.2 (Peak 2.0) | 2.5 (Peak 3.5) |
| V3= -12.0 | 0.2 (Peak 0.3) | 0.3 (Peak 0.45) | 5.0 (Peak 07) |

Single Output Power Supplies

RTW Series

The RTW series of single ultra low output power supplies (50 to 300W) will all fit within a 1U rack format and are designed for no fan or low airflow applications.



50W Type

| Output voltage (V) | Current (A) | Part No. without cover | with cover | L type* |
|--------------------|-------------|------------------------|------------|------------|
| 3.3 | 12.5 | RTW03-12R | RTW03-12RC | RTW03-12RL |
| 5 | 10 | RTW05-10R | RTW05-10RC | RTW05-10RL |
| 12 | 4.3 | RTW12-4R3 | RTW12-4R3C | RTW12-4R3L |
| 15 | 3.5 | RTW15-3R5 | RTW15-3R5C | RTW15-3R5L |
| 24 | 2.2 | RTW24-2R2 | RTW24-2R2C | RTW24-2R2L |
| 28 | 1.8 | RTW28-1R8 | RTW28-1R8C | RTW28-1R8L |
| 48 | 1.1 | RTW48-1R1 | RTW48-1R1C | RTW48-1R1L |

100W Type

| Output Voltage (V) | Current (A) | Part No. without cover | with cover | L type* |
|--------------------|-------------|------------------------|------------|------------|
| 3.3 | 25 | RTW03-25R | RTW03-25RC | RTW03-25RL |
| 5 | 20 | RTW05-20R | RTW05-20RC | RTW05-20RL |
| 12 | 8.4 | RTW12-8R4 | RTW12-8R4C | RTW12-8R4L |
| 15 | 6.7 | RTW15-6R7 | RTW15-6R7C | RTW15-6R7L |
| 24 | 4.2 | RTW24-4R2 | RTW24-4R2C | RTW24-4R2L |
| 28 | 3.6 | RTW28-3R6 | RTW28-3R6C | RTW28-3R6L |
| 48 | 2.1 | RTW48-2R1 | RTW48-2R1C | RTW48-2R1L |

150 – 300W Type

| Output Voltage (V) | 150W Current (A) | Part No. with cover | 300W Current (A) | Part No. with cover |
|--------------------|------------------|---------------------|------------------|---------------------|
| 3.3 | 35 | RTW03-35RC | 70 | RTW03-70RH |
| 5 | 30 | RTW05-30RC | 60 | RTW05-60RH |
| 12 | 12.5 | RTW12-12RC | 25 | RTW12-25RH |
| 15 | 10 | RTW15-10RC | 20 | RTW15-60RH |
| 24 | 6.3 (Peak 10) | RTW24-6R3C | 13 (Peak 20) | RTW24-13RH |
| 28 | 5.4 | RTW28-5R4C | 11 | RTW28-11RH |
| 48 | 3.2 | RTW48-3R2C | 6.5 | RTW48-6R5H |

Conformity to RoHS Directive: this means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

Single Output Power Supplies

HWS Series

Designed to comply with ROHS directive. 60% smaller in volume than former product because of high efficiency design. Seven models from 15W to 1500W provide output voltages from 3.3V to 48V.

| Series | HWS |
|------------------------------|---------------------------|
| Power | 15 - 1500W |
| Number of outputs | 1 |
| Output voltage setting range | 3.3 - 48V |
| Input voltage | Wide range 85 - 265VAC |
| Format | Closed |
| Warranty | 5 years |



HWS/HD Series

HWS for harsh environments. Guaranteed startup at -40°C, PCB coating and shock and vibration tests in accordance with MIL-standards enables the use of this power supply under heavy duty conditions.



Laboratory Supplies

Programmable power supplies for test and laboratory. Control all functions of the power supply from a Windows PC. Software download on the TDK-Lambda homepage for free.

Genesys™

Rackmounted power of 1500W, requires only 1U. Fully equipped with RS232/485 interface, analogue programming and monitoring capability. Integrated GPIB interface optional. 750W versions in half 19" rackmount dimensions (1/2 width) for building up dual units, requiring 1U space in the 19" rack or to be stacked as tower model. All Genesys units can be integrated into racks without requiring additional interspace for cooling.



NEW

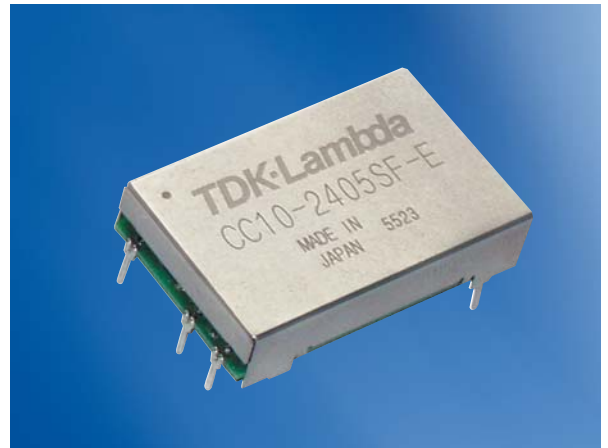
| Series | GENH | GEN |
|------------------------------------|--|--|
| Rated output power | 750 W | 750, 1500, 3300W |
| Output voltage | 0 - 6 to 0 - 600VDC | 0 - 6 to 0 - 600 VDC |
| Output current | 1.3 - 100 A | 1.3 - 400 A |
| Programming | RS232/RS485 analogue 0 - 5 V or 0 - 10 V GPIB optional | RS232/RS485 analogue 0 - 5 V or 0 - 10 V GPIB optional |
| Resolution for digital programming | 0.002 % of $V_{out\ max}$ | 0.002 % of $V_{out\ max}$ |
| Input voltage | Wide range 85 - 265 VAC | Wide range 85 - 265 VAC |
| Format | 1/2 19" 1U | 19" 1U (750, 1500W) 19" 2U (3300W) |
| Warranty | 5 years | 5 years |

DC-DC Converters

CC-E Converters

The CC-E converters range in size from 16.5 x 16.6mm to 43 x 45mm, with a max. height of 8.5mm, depending on the output power rating of the product selected.

- Compact footprint / Low profile
- Through hole or SMT versions
- 5V, 12V, 24V and 48V inputs
- 3.3 to 30V¹ single, ± 12 to 15V dual outputs
- Output voltage adjustment
- Input – output isolation
- RoHS compliant
- 5 years warranty



Features

- Compact
- Self contained
- Multiple input voltage configurations
- Open frame (no potting)

Benefits

- Less pcb area used
- Requires no external components
- Easier system configuration
- Lighter in weight, suitable for surface mount (R version)

CC-E Converters – Number of Outputs 1

| Product family | CC-E | CC-E | CC-E | CC-E | CC-E | CC-E |
|--------------------|---|---------------|---------------|---------------|-------------|-------------|
| Output power W | 1,5 | 3 | 6 | 10 | 15 | 25 |
| Number of outputs | 1 | 1 | 1 | 1 | 1 | 1 |
| Output voltages V | 3.3 - 30 | 3.3 - 30 | 3.3 - 30 | 3.3 - 30 | 3.3 - 5 | 3.3 - 5 |
| Output currents mA | 100 - 400 | 200 - 800 | 400 - 1200 | 800 - 2500 | 3000 - 4500 | 5000 - 7500 |
| Input voltage V | 5, 12, 24, 48 | 5, 12, 24, 48 | 5, 12, 24, 48 | 5, 12, 24, 48 | 24 | 24 |
| Format | Shielded, through hole or surface mount | | | | | |

CC-E Converters – Number of Outputs 2

| Product family | CC-E | CC-E | CC-E | CC-E |
|--------------------|---|-----------------------|-----------------------|-----------------------|
| Output power W | 1,5 | 3 | 6 | 10 |
| Number of outputs | 2 | 2 | 2 | 2 |
| Output voltages V | ± 12 or ± 15 | ± 12 or ± 15 | ± 12 or ± 15 | ± 12 or ± 15 |
| Output currents mA | ± 50 - ± 60 | ± 100 - ± 125 | ± 200 - ± 250 | ± 320 - ± 450 |
| Input voltage V | 5, 12, 24, 48 | 5, 12, 24, 48 | 5, 12, 24, 48 | 5, 12, 24, 48 |
| Format | Shielded, through hole or surface mount | | | |

DC-DC Converters

Onboard Power, 'Brick' and POL Converters

Offering excellent efficiency and innovative designs these modules lend themselves to a wide range of applications demanding reliability and quality under adverse environmental conditions.

With a wide range of additional options found on the full data sheets, the products provide excellent solutions to power conversion challenges.



Point of Load and Bus Converter

iBA / iBC Series – Single Output up to 35W

- Surface mountable
- High efficiency – up to 95%
- Up to 35W of power
- Maximum weight 7g (0.25oz)
- iBC Series offers tracking pin
- iBC Series non tracking option available in same footprint as iBA
- Sizes: iBA 20.3 x 11.4 x 8.76mm,
iBC 27.9 x 11.4 x 8.38mm

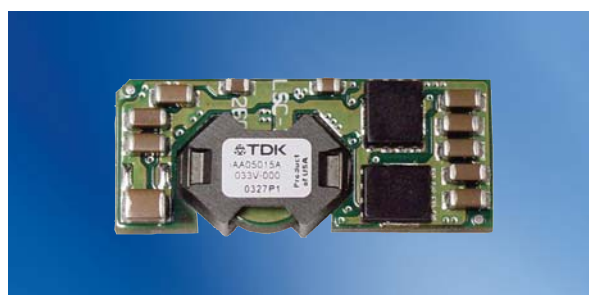


| Product | Input voltage | Output voltage | Output current |
|---------------|---------------|----------------|----------------|
| iBA05008A008V | 3.0 - 5.5V | 0.75 - 3.63V | 8A |
| iBC12007A008V | 6.0 - 14V | 0.8 - 5.0V | 7A |

Point of Load and Bus Converter

iAA / iAC Series – Single Output 80W

- Surface mountable
- High efficiency – up to 95%
- Up to 80W of power
- iAC Series offers tracking pin
- Size: 33 x 13.5 x 8.5mm



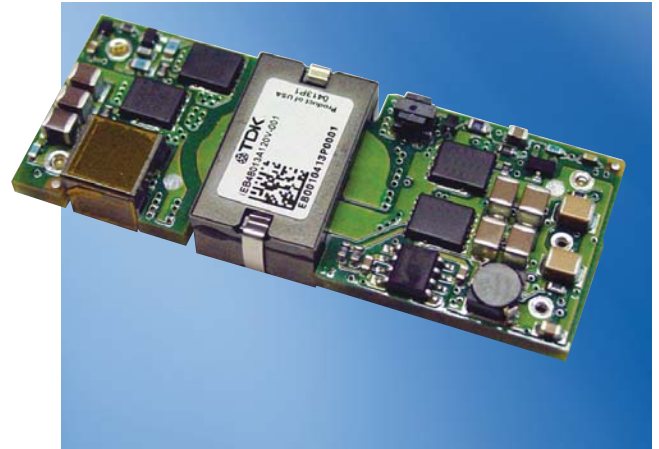
| Product | Input voltage | Output voltage | Output current |
|---------------|---------------|----------------|----------------|
| iAA05015A033V | 4.5 - 5.5V | 3.3V | 15A |
| iAA05015A025V | 3.0 - 5.5V | 2.5V | 15A |
| iAA05015A008V | 3.0 - 5.5V | 0.75 - 3.63V | 15A |
| iAC12016A008V | 6.0 - 14V | 0.8 - 5.0V | 16A |

DC-DC Converters

Fixed Ratio Series

iEB Series – 150W, 1/8B

- Low Profile, 8.5mm (0.335")
- High efficiency – greater than 94%
- Up to 150W of power
- 4:1 Conversion Ratio resulting in 12V nominal output
- Size: 58.42 x 22.86 x 8.5mm

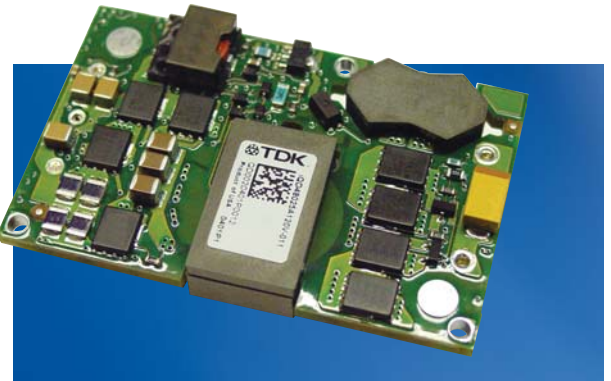


| Product | Input voltage | Output voltage | Output current |
|---------------|---------------|----------------|----------------|
| iEB48013A120V | 42 - 56V | 12V | 13.5A |

Fixed Ratio Series

iQD Series – 300W, 1/4B

- Low Profile, 9.65mm (0.38")
- High efficiency: 95%
- Up to 300W of power
- 4:1 Conversion Ratio resulting 12V nominal output
- Size: 57.91 x 36.83 x 9.65mm

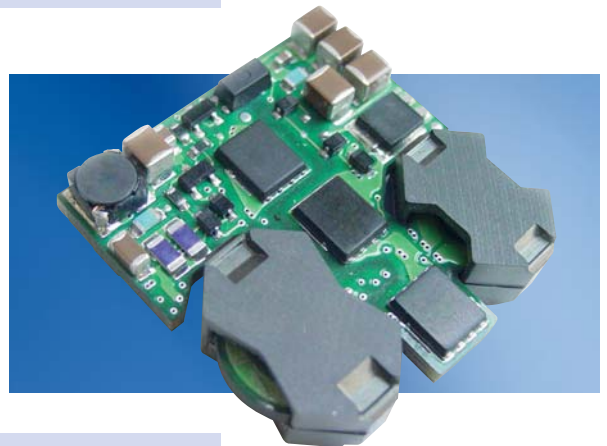


| Product | Input voltage | Output voltage | Output current |
|---------------|---------------|----------------|----------------|
| iQD48025A120V | 42 - 53V | 12V | 27A |

Pico Brick

iPB Series – Single Output 48W

- Surface mountable
- Up to 48W of output power in high ambient temperature, low airflow environments with minimal power derating
- Size: 30.5 x 29.3 x 8.1mm



| Product family | iPB |
|-------------------|----------------|
| Output power W | 15 - 48 |
| Number of outputs | 1 |
| Output voltage V | 1.5 - 15 |
| Output current A | 3 - 10 |
| Input voltage V | 48 |
| Format | Smt open frame |

DC-DC Converters

Sixteenth Brick

iSA Series – Single Output 25A/78W

- More usable power than many eighth bricks in a 44% smaller footprint
- High efficiency – greater than 89%
- Meets basic insulation spacing requirements
- Industry Standard Footprint (DOSA)
- Choice of remote on/off configuration
- Constant switching frequency
- Output voltage adjustment
- Size: 33 x 22.9 x 12.7 mm



| Product Family | iSA |
|-------------------|------------------|
| Output Power W | 30 - 82.5 |
| Number of outputs | 1 |
| Output Voltage V | 1.2 - 12 |
| Output Current A | 6.5 - 25 |
| Input voltage V | 48 |
| Format | 1/16B open frame |

Eight Brick

iEA / PAE Series – Single Output 25A/78W

- Output power of a Quarter Brick, 40% smaller
- High efficiency – greater than 89%
- Meets basic insulation spacing requirements
- Industry Standard Through-Hole Footprint
- Choice of remote on/off configuration
- Constant switching frequency
- Output voltage adjustment
- Size: 58.4 x 22.9 x 8.8 mm



| Product family | iSA | PAE |
|-------------------|-------------------------|-------------------------|
| Output power W | 30 - 78 | 36 - 100 |
| Number of outputs | 1 | 1 |
| Output voltages V | 1.2 - 28 | 1.8 - 5 |
| Output currents A | 6.5 - 25 | 10 - 30 |
| Input voltage V | 48 | 48 |
| Format | Eighth brick open frame | Eighth brick open frame |

DC-DC Converters

Quarter Brick

iQB / PAQ Series – Single Output 25A/150W

- Most cost effective single output Quarter Brick
- Standard Single Output Quarter Brick Footprint
- High efficiency – greater than 90%
- Low Profile, 8.81mm (0.347")
- Choice of remote on/off configuration
- Industry standard output voltage adjustment
- Constant switching frequency
- Size: 57.9 x 36.8 x 8.81mm



| Product family | iQB | iQB | PAQ |
|-------------------|--------------------------|--------------------------|--------------------------|
| Output power W | 27 - 150 | 50 | 50 - 100 |
| Number of outputs | 1 | 1 | 1 |
| Output voltage V | 1.2 - 12 | 3.3 | 1.2 - 5 |
| Output current A | 8 - 25 | 15 | 10 - 25 |
| Input voltage V | 48 | 24 | 48 |
| Format | Quarter brick open frame | Quarter brick open frame | Quarter brick open frame |

Quarter Brick

iQE / iQL Series – Single Output, 30A/300W

- Standard Quarter Brick Footprint
- High efficiency – greater than 90%
- 1500Vdc isolation
- Constant switching frequency
- Industry standard output voltage trim
- Remote on/off configuration
- Auto-recovering output over-voltage a. over-current protection
- ISO9000 certified manufacturing facilities
- Size: 57.9 x 36.8 x 10.41mm



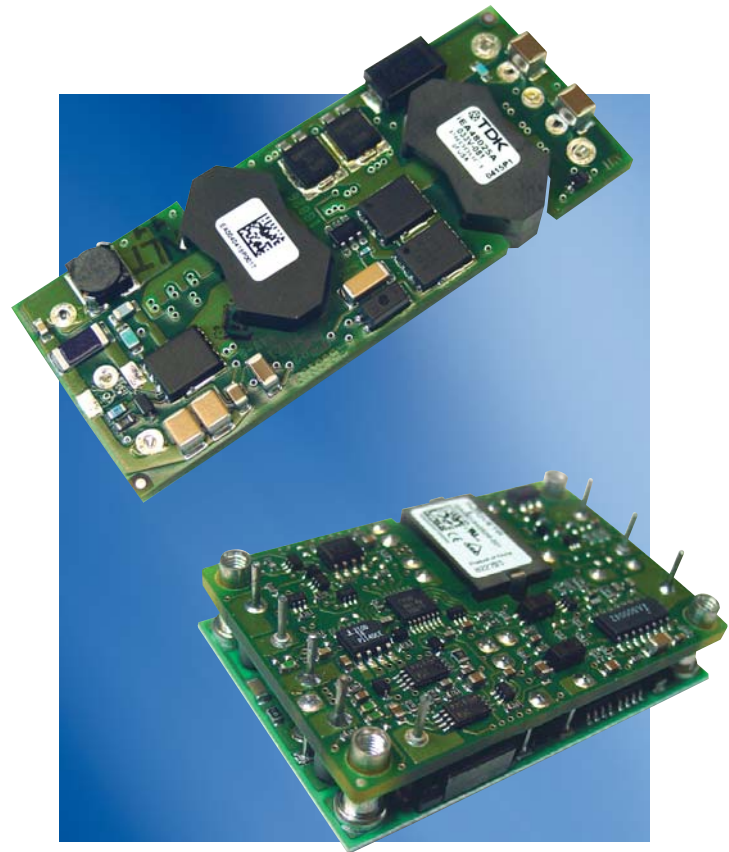
| Product family | iQE | iQE | iQE4W | iQL |
|-------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Output power W | 96 - 120 | 96 - 150 | 66 | 300 |
| Number of outputs | 1 | 1 | 1 | 1 |
| Output voltage V | 3.3 - 15 | 3.3 - 15 | 3.3 | 12 |
| Output current A | 7 - 24 | 7 - 30 | 20 | 25 |
| Input voltage V | 24 | 48 | 18 - 75 | 48 |
| Format | Quarter brick open frame | Quarter brick open frame | Quarter brick open frame | Quarter brick open frame |

DC-DC Converters

Quarter Brick

iQX Series – Single and Dual Output, Baseplate cooled

- Standard Quarter Brick Footprint
- High efficiency – up to 92%
- Very high power in high ambient temperature, low airflow environments
- Wide output voltage trim range
- Industry standard output voltage trim
- Choice of remote on/off configuration
- Size: 57.9 x 36.8 x 12.7mm



| Product family | iQA | iQN | iQM | iQP |
|-------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| Output power W | 96 - 120 | 196 - 210 | 72 - 204 | 120 - 300 |
| Number of outputs | 2 | 1 | 1 | 1 |
| Output voltage V | 2 * 1.5 - 5 | 17 - 35 | 1.2 - 12 | 1.2 - 12 |
| Output current A | 2 * 15 | 6 - 7 | 17 - 60 | 25 - 100 |
| Input voltage V | 48 | 48 | 48 | 48 |
| Format | Quarter brick with baseplate | Quarter brick with baseplate | Quarter brick with baseplate | Quarter brick with baseplate |

DC-DC Converters

Half Brick and Full Brick

Half-Brick and Full-Brick Power Modules for conduction cooling via baseplate. Leading power density provides output power up to 450 watt in half-brick size and up to 700 watt in full brick size.

Wide baseplate temperature range from -40°C up to $+100^{\circ}\text{C}$ for all kind of applications.

iHA / PAH Series – Single and Dual Output

- Wide output trim voltage
- Full line offering on all output voltage
- Complete offering for intermediate bus: 12V, 5V and 3.3V
- Monotonic start-up
- High reliability
- Baseplate for improved thermal management
- Size: 61.0 x 57.9 x 12.7mm



| Product family | iHA | iHA | PAH | PAH | PAHD | PAHD |
|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Output power W | 72 - 450 | 225 | 50 to 450 | 300 - 350 | 75 | 75 |
| Number of outputs | 1 | 1 | 1 | 1 | 2 | 2 |
| Output voltage V | 1.2 - 28 | 28 | 2.5 - 48 | 12 - 28 | 2 * 1.8 - 3.3 | 2 * 2.5 - 3.3 |
| Output current A | 11 - 60 | 8 | 2.1 - 35 | 12.5 -25 | 2 * 15 | 2 * 15 |
| Input voltage V | 48 | 24 | 48 | 24 | 48 | 24 |
| Format | Half brick with baseplate | Half brick with baseplate | Half brick with baseplate | Half brick with baseplate | Half brick with baseplate | Half brick with baseplate |

DC-DC Converters

Full Brick

iFA / PAF Series – Single Output 58.5A/700W

- Industry Standard 600W Full Brick
- High power density > 126W / inch³
- High efficiency: up to 93.5%
- Up to 700W of output power in high ambient temperature with air flow
- Complete line offering for Wireless applications
- Wide output trim voltage
- Size: 116.8 x 61.0 x 12.7mm



| Product family | iFA | iFA | PAF |
|-------------------|---------------------------|---------------------------|---------------------------|
| Output power W | 420 - 700 | 420 - 602 | 700 |
| Number of outputs | 1 | 1 | 1 |
| Output voltage V | 12 - 30 | 28 | 12 - 28 |
| Output current A | 18 - 50 | 15 - 21.5 | 25 - 58.5 |
| Input voltage V | 48 | 24 | 48 |
| Format | Full brick with baseplate | Full brick with baseplate | Full brick with baseplate |

Front End Modules

PFE Series

The 'Full Brick' AC-DC modules compliment the TDK range of brick modules, by providing an AC-DC front end, suitable for powering the DC-DC products to construct a complete Power Supply. Requiring only minimal additional components, these converters can be rapidly combined to create a full-custom design.

The PFE500 models provide a single DC output or can be combined with DCDC converters for multiple output solutions.

The PFE700 module provides a nominal, semiregulated DC output suitable for driving DCDC converters in Bus architecture.



| Product family | PFE500 | PFE500 | PFE500 | PFE700 |
|-------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Output power W | 396 | 504 | 504 | 714 |
| Number of outputs | 1 | 1 | 1 | 1 |
| Output voltage V | 12 | 28 | 48 | 51 (SR) |
| Output current A | 33 | 18 | 10.5 | 14 |
| Input voltage V | 85 - 265AC | 85 - 265AC | 85 - 265AC | 85 - 265AC |
| Format | Full brick with baseplate | Full brick with baseplate | Full brick with baseplate | Full brick with baseplate |

Power Modules

These modules comprise the basic element for developing customised power supplies. The modules include all main functions for a fast and reliable design.

PH Series

The broadest range of power modules for customised power supplies. 4 wide input voltage ranges from 18 – 400 VDC makes it simple to build a customised power supply based on standard modules for nearly every kind of application.

The PH-series are offered as “full function modules” with signaling and parallel operation function with a very wide output voltage adjustment range from –60% up to +20% of the nominal output voltage. The “simple” function modules offer a output voltage adjustment range $\pm 20\%$ in a more compact format.



| Product family | PH-(F) | PH (S) |
|-------------------|----------------------|----------------------|
| Output power W | 75 - 300 | 50 - 600 |
| Number of outputs | 1 | 1 |
| Output voltage | 2 -28 | 3.3 - 48 |
| Input voltage | 24, 48, 110, 280 | 24, 48, 110, 280 |
| Format | Brick with baseplate | Brick with baseplate |

PF Series

This power factor modules offers a easy solution to connect the PH-series with 280VDC input to AC-mains with wide range input. The modules achive a power factor of 0,95 and fit together with the PH-modules.

The PF500A-360 delivers 500 watt output power at wide range input and up to 750W output power at high line input.

The PF1000A-360 offers 1000 watt output power at wide range input and 1500 watt at high line.



| Product family | PF500 | PF1000 |
|-------------------|----------------------|----------------------|
| Output power W | 500 - 750 | 1000 - 1500 |
| Number of outputs | 1 | 1 |
| Output voltage V | 360 | 360 |
| Input voltage V | 85 - 265AC | 85 - 265AC |
| Format | Brick with baseplate | Brick with baseplate |

Value Added

Our Value Added capabilities bring a further significant contribution by providing non standard power solutions where 'of the shelf' product is not available.

The capability spans from complete custom design, development and supply, to taking standard products and modifying, adapting or integrating them into a complete product to meet your specific needs.



A 580 watt AC-DC power supply with 4 outputs, N+1 redundancy and hot swap capability.

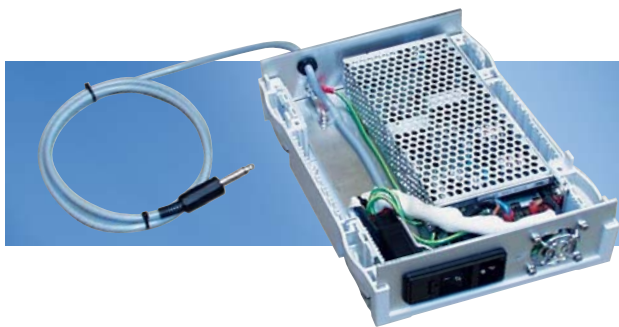


A 550 watt power supply with 10 outputs.

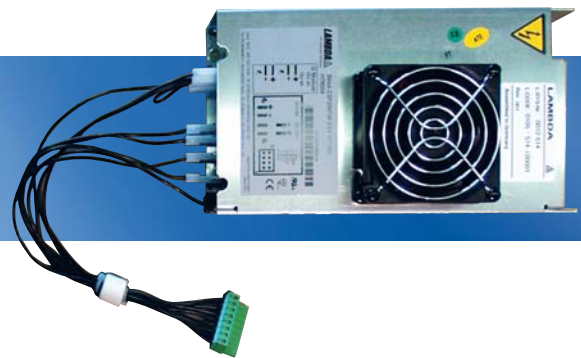


18 A 48 volt 750 watt rectifier power supply with N+1 redundancy and hot swap capability.

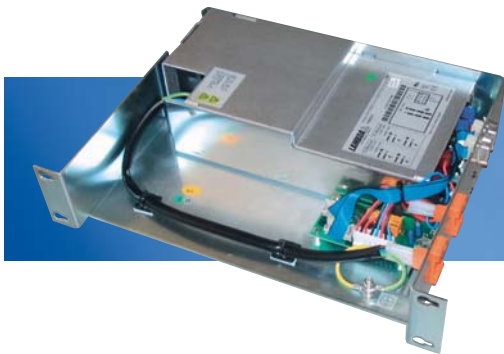
Value Added



50 watt single output power supply with special cable assembly.



250 watt multiple output power supply with integral cooling and wiring loom.



A 350 watt rack mounted multiple output unit with integral cooling and wiring loom.

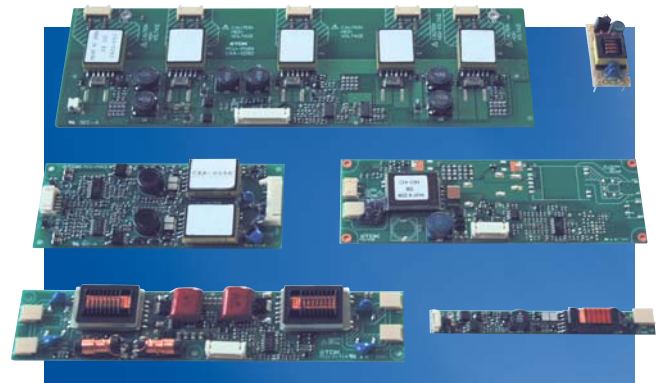


A high power multiple output power supply with integral cooling and wiring loom.

Inverters

CXA Series Inverters for LCD Backlight Applications

Designed for driving cold cathode fluorescent lamps (CCFL) in industrial and consumer applications. The extensive range includes single and multiple output types both with or without dimming control.



Dimming Inverters

| Product No. | No of outputs | Input voltage (V) | Output connector | Output current (mAmps) | Open voltage (V) | Dimension LxWxH (mm) | Input connector | |
|----------------|---------------|-------------------|---|------------------------|------------------|----------------------|---------------------|--|
| CXA-2081 | 1 | 8 - 16 | BHSR-02VS-1 (JST) | 3,5 | 1600 typ | 105x12x6 | 53261-0510 (Molex) | |
| CXA-0341* | 1 | 4.5 - 6 | SM02B-BHSS-1 (JST) | 4 | 1100 typ | 84x100x5 | CHP-2705-0101 (SMK) | |
| CXA-0461 | 1 | 10.8 - 13.2 | SM02(8.0) B-BHS-1 (JST) | 5 | 1500 typ | 105x25x8.5 | 53261-0871 (Molex) | |
| CXA-L0605-VJL | 1 | 4.5 - 6 | SM02(8.0) B-BHS-1 (JST) | 6 | 1600 typ | 95x19.7x8 | 53261-590 (Molex) | |
| CXA-L0605-VSL | 1 | 4.5 - 6 | SM02B-BHSS-1 (JST) | 6 | 1600 typ | 95x19.7x8 | 53261-590 (Molex) | |
| CXA-0307 | 1 | 10.8 - 13.2 | SM02(8.0) B-BHS-1 (JST) | 6 | 1500 typ | 110x22x8.5 | 53261-890 (Molex) | |
| CXA-L0612A-VHL | 1 | 9.6 - 14.4 | QZ-19-A3MYLA-2 (Honda) | 6 | 1800 typ | 95x19.7x8 | 53261-590 (Molex) | |
| CXA-L0612A-VJL | 1 | 9.6 - 14.4 | SM02(8.0) B-BHS-1 (JST) | 6 | 1800 typ | 95x19.7x8 | 53261-590 (Molex) | |
| CXA-L0612A-VSL | 1 | 9.6 - 14.4 | SM02B-BHSS-1 (JST) | 6 | 1800 typ | 95x19.7x8 | 53261-590 (Molex) | |
| CXA-L0624-VJL | 1 | 20 - 28 | SM02(8.0) B-BHS-1 (JST) | 6 | 1500 typ | 95x19.7x8 | 53261-590 (Molex) | |
| CXA-0319 | 1 | 4.75 - 5.25 | SM02B-BHSS-1 (JST) | 6 | 1600 typ | 95x19.7x8 | 53261-590 (Molex) | |
| CXA-0463 | 1 | 10.8 - 13.2 | SM03(7D1)B-BHS-1 (JST) | 6 | 1500 typ | 110x22x8.5 | 53261-0871 (Molex) | |
| CXA-0435 | 1 | 10.8 - 13.2 | SM02(8.0) B-BHS-1 (JST) | 6,5 | 1700 typ | 110x22x8.5 | 53261-0871 (Molex) | |
| CXA-0338 | 1 | 9.6 - 14.4 | SM02B-BHSS-1 (JST) | 6,75 | 1800 typ | 95x19.7x8 | 53261-590 (Molex) | |
| CXA-0390 | 1 | 9.6 - 14.4 | SM02B-BHSS-1 (JST) | 6,75 | 1800 typ | 95.5x20x8 | 53261-0571 (Molex) | |
| CXA-0345 | 1 | 8 - 16 | SM02(8.0) B-BHS-1 (JST) | 8 | 2000 typ | 120x30x8.5 | 53261-1071 (Molex) | |
| CXA-0474 | 2 | 10.8 - 13.2 | New wide temperature range inverter for 10.4 inch 2 lamp panels | | | | | |
| CXA-0489 | 1 | 10.8 - 13.2 | New wide temperature range inverter for 8.4 inch 1 lamp panels | | | | | |
| CXA-0406 | 1 | 10.8 - 13.2 | New wide temperature range inverter for 6.5 inch 1 lamp panels | | | | | |
| CXA-0477 | 1 | 10.8 - 13.2 | New wide temperature range inverter for 6.5 inch 1 lamp panels | | | | | |
| CXA-0492 | 1 | 10.8 - 13.2 | New wide temperature range inverter for 7.5 inch 1 lamp panels | | | | | |
| CXA-0377 | 2 | 10.8 - 13.2 | SM02B-BHSS-1 (JST) | 4,5 | TBA | 130x40x9.5 | S7B-PH-SM3-TB (JST) | |
| CXA-0362 | 2 | 10 - 18 | SM02B-BHSS-1 (JST) | 4,5 | 1800 min | 130x30x12 | S5B-PH-SM3-TB (JST) | |
| CXA-0320 | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 5 | 1250 typ | 103x30x8 | 53261-890 (Molex) | |
| CXA-0321 | 2 | 5 | SM02(8.0)B-BHS-1 (JST) | 5 | 1250 typ | 103x30x8 | 53261-890 (Molex) | |
| CXA-0326 | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 5 | 1300 typ | 103x30x8 | 53261-890 (Molex) | |
| CXA-0308 | 2 | 10.8 - 13.2 | SM03(4.0)B-BHS-1 (JST) | 5 | 1250 typ | 105x25x8.5 | 53261-890 (Molex) | |
| CXA-0359 | 2 | 11.4 - 12.6 | SM03(7-D1)B-BHS-1 (JST) | 5 | 1250 typ | 120x25x8.5 | 53261-990 (Molex) | |
| CXA-0380 | 2 | 10.8 - 13.2 | SM03(4.0)B-BHS-1 (JST) | 5 | TBA | 105x25x8.5 | 53261-990 (Molex) | |
| CXA-0420 | 2 | 4.5 - 13.2 | SM03(7-D1)B-BHS-1 (JST) | 5 | 1300 typ | 113x25x7.5 | 53261-890 (Molex) | |
| CXA-0437 | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 5 | 1350 typ | 113x25.7.5 | 53261-0871Molex) | |
| CXA-0214 | 2 | 9.6 - 14.4 | SM02(8.0)B-BHS-1 (JST) | 6 | 1500 typ | 140x17.8x8 | 53261-590 (Molex) | |
| CXA-0271 | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 6 | 1500 typ | 140x30x8.8 | S5B-PH-SM3-TB (JST) | |
| CXA-0350 | 2 | 4.75 - 5.25 | SM02(8.0)B-BHS-1 (JST) | 6 | 1500 typ | 153x21.5x9.5 | S5B-PH-SM3-TB (JST) | |
| CXA-P1212A-WJL | 2 | 10.8 - 13.2 | SM03(7-D1)B-BHS-1 (JST) | 6 | 1700 typ | 147x24x10 | 53261-790 (Molex) | |
| CXA-P1212B-WJL | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 6 | 1700 typ | 153x21.5x8.5 | 53261-790 (Molex) | |
| CXA-P1212C-WJL | 2 | 10.8 - 13.2 | SM03(7-D1)B-BHS-1 (JST) | 6 | 1700 typ | 153x21.5x8.5 | 53261-790 (Molex) | |
| CXA-0368 | 2 | 10.8 - 13.2 | SM03(7-D1)B-BHS-1 (JST) | 6 | 1650 typ | 110x22x8.5 | 53261-0871Molex) | |
| CXA-0217 | 2 | 9.6 - 14.4 | SM02(8.0)B-BHS-1 (JST) | 6 | 1500 typ | 180x25x8 | S5B-PH-SM3-TB (JST) | |

Dimming Inverters

| Product No. | No of outputs | Input voltage (V) | Output connector | Output current (mArms) | Open voltage (V) | Dimension LxWxH (mm) | Input connector | |
|---------------|---------------|-------------------|---|------------------------|------------------|----------------------|---------------------|--|
| CXA-0227 | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 6 | 1500 typ | 146.5x25x8 | S5B-PH-SM3-TB (JST) | |
| CXA-0231 | 2 | 9.6 - 14.4 | SM02(8.0)B-BHS-1 (JST) | 6 | 1500 typ | 180x25x8 | S5B-PH-SM3-TB (JST) | |
| CXA-0454 | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 6 | 1700 typ | 153x21x8.5 | 53261-0771 (Molex) | |
| CXA-0384 | 2 | 10.8 - 13.2 | SM02(4.0)B-BHS-1 (JST) | 6,5 | 1600 typ | 150x50x8.5 | S7B-PH-SM3-TB (JST) | |
| CXA-0457 | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 6,5 | 1650 typ | 140x30x8.8.5 | S5B-PH-SM4-TB (JST) | |
| CXA-P1612-VJL | 2 | 10.8 - 13.2 | SM02(8.0)B-BHS-1 (JST) | 8 | 1600 typ | 180x25x8 | S5B-PH-SM3-TB (JST) | |
| CXA-0447 | 2 | 10.8 - 13.2 | New wide temperature range inverter for 12.1 inch 2 lamp panels | | | | | |
| CXA-0462 | 2 | 10.8 - 13.2 | New wide temperature range inverter for 6.4 inch 1 lamp panels | | | | | |
| CXA-0474 | 2 | 10.8 - 13.2 | New wide temperature range inverter for 10.4 inch 2 lamp panels | | | | | |
| CXA-0441 | 2 | 10.8 - 13.2 | New wide temperature range inverter for 15.0 inch 2 lamp panels | | | | | |
| CXA-0286 | 3 | 10.8 - 13.2 | SM02B-BHSS-1 (JST) | 6 | 1500 typ | 140x70x9 | S7B-PH-SM3-TB (JST) | |
| CXA-0283 | 4 | 10.8 - 13.2 | SM02B-BHSS-1 (JST) and SM02B-BHSS-1(JST) | 5,5 | 1600 typ | 180x37x8.5 | S7B-PH-SM3-TB (JST) | |
| CXA-0453 | 4 | 10.8 - 13.2 | SM03(7-D1)B-BHS-1 (JST) | 6 | 1600 typ | 150x50x8.5 | S7B-PH-SM4-TB (JST) | |
| CXA-0442 | 4 | 10.8 - 13.2 | SM02(8.0) B-BHS-1 (JST) | 6 | 1600 typ | 150x50x8.5 | S7B-PH-SM4-TB (JST) | |
| CXA-0453 | 4 | 10.8 - 13.2 | SM03(7-D1)B-BHS-1 (JST) | 6 | 1600 typ | 150x50x8.5 | S7B-PH-SM4-TB (JST) | |
| CXA-0385 | 4 | 10.8 - 13.2 | SM02B-BHSS-1 (JST) and SM02B-BHSS-1(JST) | 6,5 | 1600 typ | 150x50x8.5 | S7B-PH-SM3-TB (JST) | |
| CXA-0488 | 4 | 10.8 - 13.2 | SM02B-BHSS-1 (JST) | 6,5 | 1900 typ | 180x37x12 | S7B-PH-SM4-TB (JST) | |
| CXA-0349 | 4 | 10.8 - 13.2 | SM02B-BHSS-1 (JST) | 6,9 | 2100 typ | 180x37x8.5 | S7B-PH-SM3-TB (JST) | |
| CXA-0317 | 4 | 10.8 - 13.2 | SM03(7-D1)B-BHS-1 (JST) | 7 | 1600 typ | 120x50x8.2 | S7B-PH-SM3-TB (JST) | |
| CXA-0346 | 4 | 10.8 - 13.2 | SM03(7-D1)B-BHS-1 (JST) | 7 | 1600 typ | 180x37x8.5 | S7B-PH-SM3-TB (JST) | |
| CXA-0392 | 4 | 10.8 - 13.2 | SM02B-BHSS-1 (JST) | 7 | 1600 typ | 120x50x8.2 | S7B-PH-SM4-TB (JST) | |
| CXA-0458 | 4 | 10.8 - 13.2 | New wide temperature range inverter for 15.0 inch 4 lamp panels | | | | | |
| CXA-0379 | 6 | 11.4 - 12.6 | IL-Z-9PL-SMTY (JAE) | 6,5 | TBD | 220x78.5x9.2 | DF3-8P-2H (HIROSE) | |
| CXA-0421 | 6 | 10.8 - 13.2 | New wide temperature range inverter for 19.0 inch 6 lamp panels | | | | | |

Non Dimming Inverters

| Product No. | No of outputs | Input voltage (V) | Output connector | Output current (mArms) | Open voltage (V) | Dimension LxWxH (mm) | Input connector |
|---------------|---------------|-------------------|-------------------------|------------------------|------------------|----------------------|---------------------|
| CXA-L0505-NJL | 1 | 5 | SM02(8.0) B-BHS-1 (JST) | 5 | 1500 typ | 80x20x8 | 53261-590 (Molex) |
| CXA-L0512-NJL | 1 | 12 | SM02(8.0) B-BHS-1 (JST) | 5 | 1500 typ | 80x20x8 | 53261-590 (Molex) |
| CXA-L0524-NJL | 1 | 24 | SM02(8.0) B-BHS-1 (JST) | 5 | 1500 typ | 80x20x8 | 53261-590 (Molex) |
| CXA-P1012-NJL | 2 | 12 | SM02(8.0) B-BHS-1 (JST) | 5 | 1500 typ | 130x20.5x8 | S5B-PH-SM3-TB (JST) |
| CXA-P1024-NJL | 2 | 24 | SM02(8.0) B-BHS-1 (JST) | 5 | 1500 typ | 130x20.5x8 | S5B-PH-SM3-TB (JST) |

Non Dimming PCB Mounting Inverters

| Product No. | No of outputs | Input voltage (V) | Output connector | Output current (mArms) | Open voltage (V) | Dimension LxWxH (mm) | Input connector |
|-------------|---------------|-------------------|------------------|------------------------|------------------|----------------------|-----------------|
| CXA-L10A | 1 or 2 | 5 | 05/10 | 900 typ | Pin Terminal | Pin Terminal | 43x20x15 |
| CXA-L10L | 1 or 2 | 12 | 05/10 | 900 typ | Pin Terminal | Pin Terminal | 43x20x15 |
| CXA-M10A-L | 1 or 2 | 5 | 05/10 | 1200 typ | Pin Terminal | Pin Terminal | 55x28x16.5 |
| CXA-M10L-L | 1 or 2 | 12 | 05/10 | 1200 typ | Pin Terminal | Pin Terminal | 55x28x16.5 |
| CXA-M10M-L | 1 or 2 | 24 | 05/10 | 1200 typ | Pin Terminal | Pin Terminal | 55x28x16.5 |
| CXA-M14L-P | 1 or 2 | 12 | 05/10 | 1500 typ | Pin Terminal | Pin Terminal | 55x28x17 |
| CXA-P10A-P | 1 or 2 | 5 | 05/10 | 1500 typ | Pin Terminal | Pin Terminal | 55x28x17 |
| CXA-P10L-P | 1 or 2 | 12 | 05/10 | 1500 typ | Pin Terminal | Pin Terminal | 55x28x17 |
| CXA-P20L-L | 1 or 2 | 12 | 10/20 | 1500 typ | Pin Terminal | Pin Terminal | 55x28x16.5 |
| CXA-P10M-P | 1 or 2 | 24 | 05/10 | 1500 typ | Pin Terminal | Pin Terminal | 55x28x17 |



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