AC/DC Converter • DC/DC Converter • Isolation Transmitter
IGBT Driver • LED Driver • EMC Auxiliary Device

Shortform Brochure
## DC/DC Converter

### SMD Package

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/B _XT-1WR2</td>
<td>1 Watt 10% Input Unregulated Dual/Single Output 1.5K VDC Isolation</td>
</tr>
<tr>
<td>F _XT-1WR2</td>
<td>1Watt 10% Input Unregulated Single Output 1.5K VDC Isolation</td>
</tr>
<tr>
<td>F _XT-1WAR2</td>
<td>1Watt 10% Input Unregulated Dual Output 1.5K VDC Isolation</td>
</tr>
<tr>
<td>IB _XT-2WR2</td>
<td>2 Watts 10% Input Unregulated Dual/Single Output 1.5K VDC Isolation</td>
</tr>
</tbody>
</table>

### Non-Isolation

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>K78-500R2</td>
<td>Single Output 4.75-32VDC Input 500mA Output Efficiency up to 96%</td>
</tr>
<tr>
<td>K78-1000(L)</td>
<td>Single Output 4.75-32VDC Input 1000mA Output Efficiency up to 97%</td>
</tr>
<tr>
<td>K78-1500(L)</td>
<td>Single Output 4.75-18VDC Input 2000mA Output Efficiency up to 95%</td>
</tr>
<tr>
<td>K78-2000(L)</td>
<td>Single Output 4.75-32VDC Input 2000mA Output Efficiency up to 92%</td>
</tr>
</tbody>
</table>

### Photovoltaic Power Supply

#### Ultra-wide Input Voltage Range

- PV05/10/15-R2 4K VDC Isolation 100-1000VDC Input Fast Start-up High Reliability
- PV40 40 Watts 4K VDC Isolation 200-1200VDC Input Input Reverse Protection Fast Start-up

### Automotive Power Supply

- CF _XT-1WR2 10% Input Unregulated Single Output 1.5K VDC Isolation 50-120 VDC

### Railway Power Supply

- UR813D-YMD-6W 6-20 Watts 40-160VDC DIP Single Output 1.5K VDC Isolation
- UR810D-XD-10W 40-160VDC DIP Single Output 1.5K VDC Isolation
- UR810D- XD-20W 50-150 Watts 40-160VDC DIP Single Output 3K VDC Isolation

### High Isolation DC/DC Converter

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>G/H _S-1W</td>
<td>1 Watt 10% Input Unregulated SIP Dual/Single Output 6K VDC Isolation</td>
</tr>
<tr>
<td>G/H _S-2W</td>
<td>1 Watt 10% Input Unregulated SIP Dual/Single Output 6K VDC Isolation</td>
</tr>
</tbody>
</table>

### Optional Mountings

- Heat Sink Mounting
- DIN-Rail Mounting
- Chassis Mounting
### AC/DC Converter

**LS Series**
- LS01-SS
  - Open Frame
  - 1 Watt
  - 3kV AC Isolation
  - 35.0±2.0˚C to 55˚C
  - More cost-effective

**LI Series**
- LI120
  - DIN-Rail
  - 120 Watts
  - 3kV AC Isolation
  - Remote On/Off

**LD Series**
- LD03-10B_R2
  - Compact Size
  - 3 Watts
  - 3kV AC Isolation
  - 85-264VAC/100-370VDC

- LD10-20B
  - 10 Watts
  - 4kV AC Isolation
  - 85-264VAC/100-370VDC

- LD12-20B
  - 12 Watts
  - 4kV AC Isolation
  - 85-264VAC/100-370VDC

- LD05-23B
  - 5 Watts
  - 4kV AC Isolation
  - 85-305VAC/100-430VDC

- LD05-20B
  - 5 Watts
  - 4kV AC Isolation
  - 85-264VAC/100-370VDC

**LH Series**
- LH05—25
  - Wide Operating Temperature Range
  - 5~25 Watts Available
  - 85~264VAC/100~370VDC
  - Optional Mountings
  - 3kV AC Isolation

- LH40/60
  - 40~60 Watts Available
  - 3kV 4kV AC Isolation
  - Option Mountings

- LH(05-25)-138xx
  - 4~25 Watts Available
  - 40~70˚C
  - 85~350VAC/100~430VDC Input
  - EMI Meets Class B

**Electric Power Industry**
- LN05-109
  - LS30-0012512-038
  - 5~30 Watts
  - 85~264VAC Input
  - 5/10kΩ Terminal Resolution
  - Withstands 2KV/4KV Surge

- LN(01-03)-128
  - 1~3 Watts
  - 40~70˚C
  - 150-264VAC/233~370VDC
  - Service Life More Than 5 Years
  - Without Electrolytic Capacitor

### Signal Transmitter

**Communication Interface Module (Built in DC/DC Converter)**
- TD301/S01D485
  - RS485
  - 32 Nodes
  - Single Output
  - Rate: 9.6KBps

- TD301/S01D485H
  - 32 Nodes
  - Single Output
  - Rate: 9.6KBps
  - 0~115.2KBps Options
  - Low Power Consumption

- TD302/S02D232H
  - Rate: 0~115.2KBps
  - Single Output
  - Auto Switching
  - Low Power Consumption

- TD301/S01D485H-A
  - 32 Nodes
  - Single Output
  - Rate: 0~115.2KBps
  - Automatic Switching
  - Low Power Consumption

- TD301/S01D485H-E
  - 32 Nodes
  - Single Output
  - Rate: 0~115.2KBps
  - Enhanced Version
  - Low Power Consumption

- TDH301/S01D485H
  - 33 Nodes
  - Single Output
  - Rate: 0~115.2KBps
  - Two-terminal isolation
  - Bus protection

**Isolation Amplifier**
- T/L/THL
  - Ratio: 0~115.2KBps
  - Single Output
  - Two-terminal Isolation
  - RART Compatibility

- T/L/TLN
  - Ratio: 0~115.2KBps
  - Single Output
  - Two-terminal Isolation

- T/L/CM
  - Ratio: 0~115.2KBps
  - Single Output
  - Two-terminal Isolation

- T/L/AN
  - Ratio: 0~115.2KBps
  - Single Output
  - Two-terminal Isolation

**Signal Conditioning Module**
- TEM/TEM/TE_CM
  - DIP
  - Active
  - 0~VH & +VU (TE_CM)

- TEM/TEM/TE_AN
  - DIP
  - Active
  - 0~VH & +VU (TE_AN)

- TRP
  - DIP
  - Active
  - Thermal Resistor Signal
  - Detect-on Type

### IGBT/LED Drivers

**IGBT Driver**
- QCS62-8A
  - Built in High CMR Opto-coupler
  - Two Power Supply
  - Switching Frequency up to 40kHz

- QP12W055-37T/A
  - Built in High CMR Opto-coupler
  - Fault Output
  - Switching Frequency up to 20kHz
  - Built-in DCDC Isolated Power Supply

**DC/DC Converter for IGBT Driver**
- QAxx
  - ±10% Input
  - Regulated Output

- QA01C
  - ±10% Input
  - Dual Output
  - Single & Dual Output
  - 3kVAC Isolation
  - Power Supply for SCR Isolation

- QA001 & QA002
  - 2:1 Input
  - DIP
  - 0.24~4.8 Watts
  - Regulated Output
  - Single & Dual Output
  - 3kV DC Isolation

- CQA001
  - 9:1 Input
  - DIP
  - 0.24~4.8 Watts
  - Regulated Output
  - Single & Dual Output
  - 3kV DC Isolation

### LED Driver
- KC24H-1000
  - Chassis Mounting
  - 0~700mA Output Available
  - 1000µF Capacitive Load
  - Analogue & PWM Dimming

- KC24H-1200
  - Chassis Mounting
  - 0~1200mA Output Available
  - 1000µF Capacitive Load
  - Analogue & PWM Dimming

- KC24W
  - SMD
  - 0~700mA Output Available
  - 1000µF Capacitive Load
  - Analogue & PWM Dimming

- KC24RT
  - Analog
  - 0~700mA Output Available
  - 1000µF Capacitive Load
  - Analogue & PWM Dimming

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