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OUR PRODUCT OF THE MONTH:

75-200 W 18-75 V ULTRA-WIDE INPUT VOLTAGE



FEATURES

- Ultra-wide input voltage range: 18-75 VDC
- Isolation voltage: 2250 VDC
- Operating temperature range: -40 °C to +85 °C
- Protections: input UVP, SCP, OCP, OVP, OTP
- International standard pin-out: 1/4 brick (packages are available with connector and heat sink)
- Meet EN60950 (pending)

75-200W 18-75V ULTRA-WIDE INPUT VOLTAGE, ISOLATED & REGULATED **OUTPUT DC/DC CONVERTERS URF48 QB-75/150/200WR3 SERIES**

HAVE A LOOK

MORNSUN further enriches the product line of wide input voltage R3 DC/DC converters and expands 100 W to 75 W, 150 W and 200 W URF48_QB-R3 series.

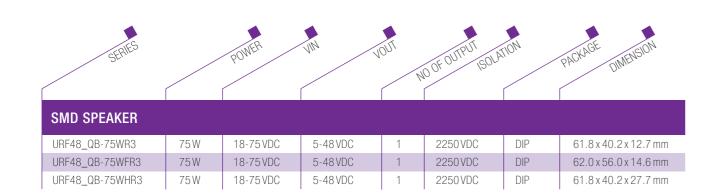
URF48_QB-R3 series provide wide input voltage range of 18-75 VDC, widely applicable to traditional industries, emerging manufacturing industries and new energy industries. Traditional industries include industrial control, communication, power grid, and railway, etc. Emerging manufacturing industries do intelligent manufacturing and intelligent robots. New energy industries do wind energy controllers and electric vehicles, etc.

The series come in international standard package (1/4 brick). Packages with connector and heat sink are also available to meet different installation requirements. Powers are 75-200 W and power density is high up to 104 W / inch³. Isolation voltage is 2250 VDC and the efficiency is up to 93 %, with multiple protections. URF48 QB-R3 series are expected to provide customers with high reliability as well as excellent comprehensive performance. In addition, technical support from FAEs is available and ready, aiming to providing the best power solution.

Logistics robot is powered by batteries to track, lift and transport the goods to targeted positions in the warehouse. The transmission wheel is used for tracking and walking on the ground, the dumbwaiter for moving and placing the goods, the scanner for reading the information of the goods including location information and the camera for cruising and dispatching. All information interaction of the entire warehouse is achieved by the converters, to help intelligent scheduling and information management of the logistics system. Thus, the converters are required:

- a) Battery-powered, wide input voltage range.
- b) High anti-interference ability. Interference will be caused if connected with the battery together with the motor.
- c) High reliability, long longevity.
- d) Compact size, light, cost-effective.

URF4824QB-200WR3 series offer a wide input voltage range, solving troubles of wide battery voltage fluctuation range and motor interference on the system interference. 24 V output, power up to 200 W and high power density are designed with high reliability.



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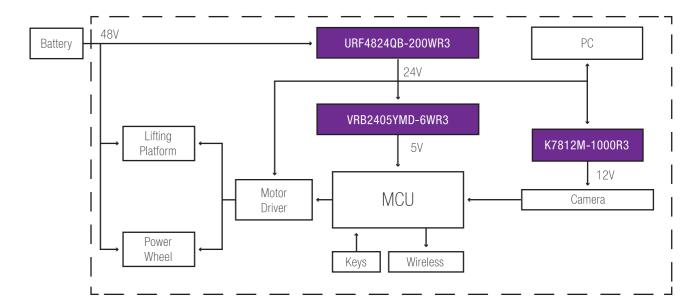


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Applications:

Logistics robot, etc



NEW TYPES OF SMD SPEAKER

HAVE A LOOK





FEATURES

- Dimensions from 13 mm to 29 mm
- Widest frequency range and best sound, compared with other sound solutions
- Different impedance values available upon request
- Different dimensions and frequencies available
- SMD capable
- Automotive specification and sound solution available on request

APPLICATIONS

- Portable handheld devices
- White goods
- Medical healthcare
- Industry devices
- Measuring devices
- Communication devices
- Every application, which will be improved through SMD

SMD SPEAKER PCXS1313040-R08W0 -40 to +105 °C 13.0 x 13.0 x 4.0 mm | 8 Ω | 700 mW | 90 dB F0 to 20.000 Hz 7-A-SM-266 PCXS1515040-R08W0 15.0 x 15.0 x 4.0 mm | 8 Ω 500 mW 87 dB -30 to +85 °C F0 to 20.000 Hz 5-A-SM-187 CSMS13S4-8S0.3-P950F 13.0 x 13.0 x 4.0 mm 8Ω 300 mW 87 dB -40 to +85 °C 950 Hz F0 to 20.000 Hz CSMS15S4.3-4S0.3-P950F 15.0 x 15.0 x 4.3 mm 4Ω 300 mW | 89 dB -40 to +85 °C F0 to 20.000 Hz CSMS18S4.8-8S0.3-P500F 18.0 x 18.0 x 4.8 mm 8Ω 300 mW 89 dB -40 to +85 °C F0 to 20.000 Hz CSMS29R8-8S0.6-P700F Round 28.8 x 8.0 mm 8Ω | 600 mW | 97 dB | -40 to +85 °C | 700 Hz F0 to 20.000 Hz

RGT-SERIES, THIN FILM CHIP RESISTORS WITH EXTENDED OPERATING TEMPERATURE RANGE TO +175 °C

HAVE A LOOK



Thin film expert Susumu pre- announces the new RGT series which are metal thin film chip resistors with extended temperature range: -55 °C to +175 °C. This extension of the upper category temperature from +155 °C (standard, RG-Series) to +175 °C was mainly done by additional qualification tests, such as high temperature exposure test, to confirm the extended operating temperature. RGT series are available from the sizes 0402 - 0805, Ohmvalues 10.0 hm - 2.7 Meg. Ohm, tolerances \pm 0,1 to \pm 0,5 %, and TCR 10/25 ppm. RGT Series is suitable for use in high temperature environments, such as automotive applications and is fully AEC-Q200 qualified.

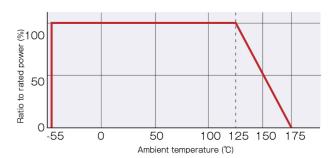
FEATURES

- Wide operating temperature to +175 °C
- High precision (tol. to 0,1 %, TCR to 10 ppm)
- Best long term stability with inorganic passivation layer
- ROHS compliant, halogen free
- AEC-Q200 compliant

TEST ITEMS	<47 Ω	≧47 Ω
Short time overload	± 0.05 %	± 0.05 %
Life (baised)	± 0.5 %	± 0.25 %
High temperature High humidity	± 0.5 %	± 0.25 %
Temperature shock	± 0.25 %	± 0.1 %
High temperature exposure	± 0.25 %	± 0.1 %

APPLICATIONS

- Automotive electronics
- Industrial measurement instrumentation
- Industrial machines
- Wide temperature operation machines



Derating Curve

Туре	Power ratings	Temperature coefficient of	Resistance range (Ω) Resistance tolerance		Max. voltage	Resistance value	Operating temp.	Packaging quantity
		resistance (ppm/°C)	±0.1 % (B)	±0.5 % (D)		series		
RGT1005 1/32 W	±10 (N)	10 ≤ R ≤	1 ≤ 100 k	5011				
	±25 (P)	10≤R≤150 k		50 V	F 04 F 00	-55 °C to	T5	
RGT1608 1/16 W	±10 (N)	10 ≤ R ≤ 270 k		100 V				
	±25 (P)	10 ≤ R ≤ 1 M			E-24.E-96	+175°C	15	
RGT2012 1/10 W	±10 (N)	10 ≤ R ≤ 475 k		1501/				
	±25 (P)	10 ≤ R ≤	2.7 M					

Electrical Specification

INVENTRONICS INTRODUCES ENHANCED, DIMMABLE **CONSTANT-VOLTAGE DRIVERS**

HAVE A LOOK

The new and improved EUV-150SxxxDTA/DVA is the first dimmable constant-voltage LED driver being added to the expansive Inventronics product portfolio. The dimming control provides isolated 0-10 V dimming, deep dimming down to 0.1 % and Dim-to-Off capabilities. The new and improved EUV-150SxxxSTA/SVA are non-dimmable models for those who would like to take advantage of all the other advantages but do not require dimming controls.

Both new series provide output voltages of 12 V and 24 V and supply up to 150 W at output currents from 0-12.5 A with a fullload efficiency up to 90.5 %. The calculated lifetime of these drivers at 70 °C case temperature has increased to 82,000 hours.

The rectangular, extruded-metal housing is more compact to enable more creative freedom on luminaire design. It is IP67 rated, which is great for LED strip, architectural, decorative and signage lighting. To ensure extended trouble-free operation, the upgraded EUV series also features over-voltage, overtemperature and short-circuit protection.

The EUV-150SxxxDTA/STA is approved to UL, FCC, CE and KS standards. The EUV-150SxxxDVA/SVA is approved to TUV, CE, CB, CCC and KS standards.

The EUV-150SxxxDVA (SVA) series is a 150 W, constantvoltage IP67 LED driver that operates from 90-305 Vac input with excellent power factor. The high efficiency of the driver and compact metal case enables them to run cooler, significantly improving reliability and extending product life.

APPLICATIONS

- LED Strip
- Architectural
- Decorative
- Signage

NUMBER	OUT	PUT VOLTAGE RAN	GE OUTPUT CLY	RRENT RANGE MAX. OUTE	UT POWER	FOLENCY POWER FACT	(OF
MODELS							
EUV-150S012DVA(SVA)	12 V	90-305 VAC 127-250 VDC	0-12.5A	150 W	90.0 %	0.99 (120 VAC)	0.96 (220 VAC)
EUV-150S024DVA(SVA)	24 V	90-305 VAC 127-250 VDC	0-6.25A	150W	90.5 %	0.99 (120 VAC)	0.96 (220 VAC)

INVENTRONICS INTRODUCES ENHANCED, DIMMABLE **CONSTANT-VOLTAGE DRIVERS**

SPEC / FEATURES	EUV-150SxxxST/SV	EUV-150SxxxDTA/DVA	EUV-150SxxxSTA/SVA
SI EU / I EAI SILES	L0V-1303XXX31/3V	EUV-1300XXXD1A/DVA	EUV-1303XXX31A/3VA
Output Voltage	12V, 24V, 36V, 42V, 48V, 54V	12V, 24V (UL LVLE)	12V, 24V (UL LVLE)
Fast Start (< 0.5 s)	_	•	•
Isolated 0-10 V Dimming	_	•	_
PWM Dimming	_	•	_
Dim-to-Off	_	•	_
Max. Efficiency	93 %	90.5 %	90.5 %
Surge Protection	4 kV DM, 6 kV CM	4 kV DM, 6 kV CM	4 kV DM, 6 kV CM
THD	< 20 % @ 100-277 Vac / 50-60 Hz	< 20 % @ 100-277 Vac / 50-60 Hz < 10 % @ 220-240 Vac / 50-60 Hz	< 20 % @ 100-277 Vac / 50-60 Hz < 10 % @ 220-240 Vac / 50-60 Hz
Lifetime	77,200 hours @Tc = 70 °C	82,000 hours @Tc = 70 °C	82,000 hours @Tc = 70 °C
Warranty Tc max	65 °C	75 °C	75 °C
Case Size	266.0 x 67.5 x 36.5 mm	201.0 x 67.5 x 36.5 mm	201.0 x 67.5 x 36.5 mm
Certifications	UL, FCC, CE, KS, CB, CCC, PSE, EAC, SAA	UL Class P (DTA), FCC, CE, CCC, TUV, KS, CB	UL Class P (STA), FCC, CE, CCC, TUV, KS, CB

FEATURES

- High Efficiency (Up to 90.5 %)
- Isolated 0-10 V Dimmable (DVA models)
- Non-Dimmable (SVA models)
- Deep Dimming down to 0.1 %
- Constant Voltage PWM Output Frequency up to 1.5 kHz
- Dim-to-Off with Standby Power ≤ 0.5 W
- Input Surge Protection: 4 kV line-line, 6 kV line-earth
- All-Around Protection: OCP, OVP, SCP, OTP
- Waterproof (IP67)
- SELV Output
- Suitable for Independent Use
- 5 Years Warranty





LDO WITH REVERSE CURRENT PROTECTION / DISCHARGE FUNCTION



The NJM2879 is a low dropout regulator which achieves high ripple rejection, low noise and high speed response with the bipolar technology. Small packaging and 0.47 µF decoupling capacitor make the NJM2879 suitable for space conscious applications. Moreover, the NJM2879 is not required noise reduction capacitor. In addition, the reverse current protection makes external SBD unnecessary.

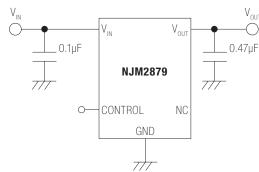
FEATURES

- AEC-Q100 Grade 1 Qualified
- Operating Voltage Range (2.3 V to 6.5 V)
- Output Voltage Accuracy (Vo ± 2.0 %)
- Output Current (Io (min.) = 200 mA)
- Reverse Current Protection
- Discharge Function
- ON/OFF Control
- Correspond to Low ESR capacitor (MLCC)
- Thermal Shutdown Circuit
- Over Current Protection Circuit
- Package Outline (SOT-23-5)

APPLICATIONS

- Automotive infotainment
- Automotive ECU unit
- Industrial equipment

TYPICAL APPLICATION



PARAMETER	SYN	RATINGS						
ABSOLUTE MAXIMUM RATINGS								
Input Voltage	V _{IN}	-0.3 to +7V						
Control Pin Voltage	V _{CONT}	-0.3 to +7 V						
Output Voltage	V _{out}	Vo ≤ 1.8 V Vo > 1.8 V	-0.3 to +5.5 V -0.3 to +7 V					
Power Dissipation (Ta = 25 °C) SOT-23-5	P _D	(2-layer / 4-layer) 480 ⁽¹⁾ / 650 ⁽²⁾						
Junction Temperature Range	Tj	-40 to +150 °C						

(1): Mounted on glass epoxy board. (76.2 x 114.3 x 1.6 mm: based on EIA/JEDEC standard, 2-layers)

(2): Mounted on glass epoxy board. (76.2 x 114.3 x 1.6 mm: based on EIA/JEDEC standard, 4-layers), internal Cu area: 74.2 x 74.2 mm

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-40 to +125 °C

-50 to +150 °C

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Operating Temperature Range

Storage Temperature Range

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