



Features

- Wide 2 : 1 Input Voltage Range
- High Power Density
- High Efficiency
- Operating Temperature Range: -40 °C to +85 °C
- Output Short Circuit Protection
- Output Over Voltage Protection
- Remote On /Off Control
- Input/ Output Isolation 1.5 kVDC
- Meet EN55022, Class A (Radiation)
- Shielded Metal Case with Insulated Baseplate
- Lead Free Design, RoHS Compliant
- 24pin DIP Package with Industry-Standard Footprint



Applications

- Distributed power system
- Telecommunication application
- Battery powered equipment
- Industrial application
- Process control equipment
- Transportation equipment

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Input Specifications		
Input voltage range	48V nominal input	36~75V
Input current	Vin=48V and no Load	8mA(typical)
Input current	Vin=48V and full Load	203mA(typical)
Input current	Vin=48V and output shorted	10mA(typical)

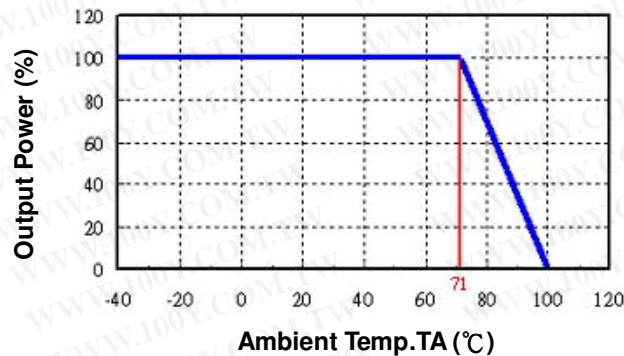
Remote On/Off control
 Converter: ON, Open or $3.5V < V_r < 12V, I_{in} = 0.2mA(max)$
 Converter: OFF, Short or $0V < V_r < 1.2V, I_{in} = 2.5mA(max)$

Output Specifications		
Output voltage		±15V
Output voltage accuracy	Vout=14.7~15.3V	±2%
Maximum Load		265mA (for each output)
Minimum Load		0mA
Maximum capacitive load		250uF
Efficiency	Vin=48Vdc and full load	87%(typical)
Ripple / Noise	20MHz bandwidth.	±60mVp-p (maximum)
Temperature coefficient		±0.02%/°C (maximum)
Output short circuit protection	Automatic recovery	Hiccup, Continuous
Output over voltage protection		18V(typical)

E-mail:

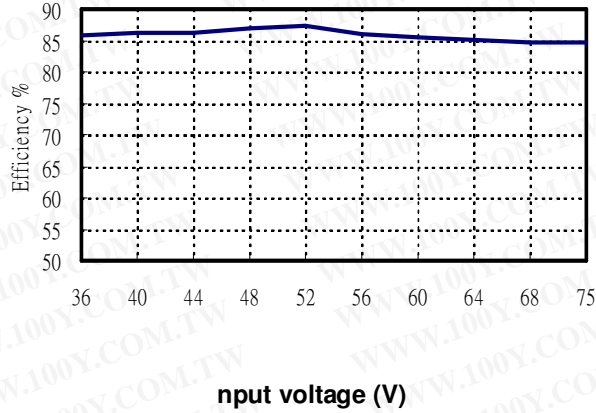


Line regulation	LL to HL at full load	±0.2%(maximum)
Load regulation	Balanced load	±1%(maximum)
Dynamic Characteristics		
Transient response over shoot	di/dt=0.8A/μs	≤ ±5% of Vo
Transient response settling time	50% load step change	430μs (typical)
Start-up time	Nominal Vin and full load	1.14sec(typical)
Switching frequency		300kHz (typical).
General Specifications		
Reliability, calculated MTBF		3.76×10 ⁶ hours
Operating ambient temperature	With derating	-40°C ~+85°C
Maximum case surface temperature		100°C
Storage temperature range		-55°C ~+105 °C
Relative humidity		95% RH(maximum)
Isolation voltage	Input to output	1500VDC
Isolation capacitance	Input to output	300pF(typical)
Isolation resistance	Input to output (500VDC)	10 ⁹ Ω (minimum)
Cooling	Free air convection	
Physical Specifications		
Case material		Nickel-coated copper
Base material		Non-conductive black plastic
Potting material		Silicon rubber (UL94V-0)
Dimensions		1.25 × 0.80 × 0.40 Inch (31.8 × 20.3 × 10.2 mm)
Weight		17.2g (0.59oz) (typical)
Soldering temperature	Lead-free wave soldering	260°C/10Sec(maximum)
Absolute Maximum Ratings		
Input surge voltage	100msec.	100V
Performance Curves		

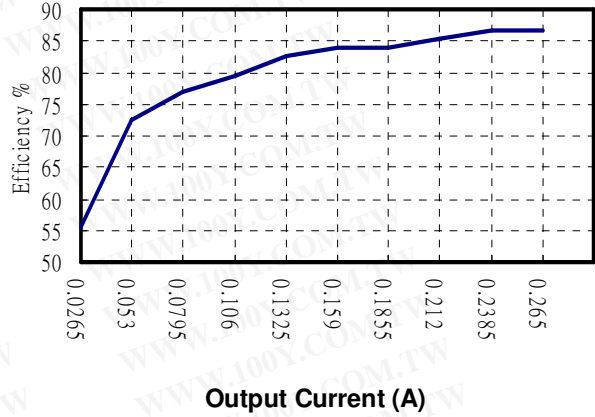
Power Derating Curve



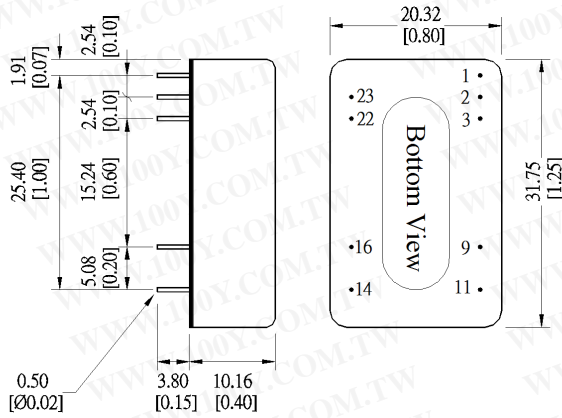
Input voltage vs. Efficiency



Output Current vs. Efficiency



Mechanical Dimensions



Pin	Dual
1	Remote On/Off
2	-Vin
3	-Vin
9	Common
11	-Vout
14	+Vout
16	Common
22	+Vin
23	+Vin

Unit: mm [inch]
Tolerance: ±0.5[0.02]

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