

ARLITECH

HAZ20 Series



Features

- Universal Input Range
- Fully Encapsulated Plastic Case
- Available RoHS Compliant
- 3000Vac Input/Output Isolation
- UL, CE Safety Approving
- 73.66 x 53.34 x 20.32 mm package
- 2 Years Warranty
- Meet California Energy Commission (CEC), Energy Star requirements

SAFETY&EMC

SAFETY

- UL *UL60950-1(Pending)*
- TUV *EN60950-1(Pending)*

EMC

- Conduction *EN55022 (Class B)*
- Radiation *EN55022 (Class B)*

Specifications

Input

- Input Voltage Range *90~264 Vac
115 or 230 Vac (Nom.)*
- Input Frequency Range *47~440Hz*
- Input Dissipation(No Load) *<0.5W (Nom.)*
- Inrush current *20A (<2ms/Cold start)*
- Leakage Current *0.75mA(Max.)*
- Start-up Time *Soft start*

Output

- Output Power *20W*
- Min Load Current *None*
- Voltage Accuracy *±2%*
- Line Regulation *±1%*
- Load Regulation *±1% (0%~100% load)*
- Cross Regulation *±5%(25%~100% load)*
- Transient Recovery Time *200us*
- Transient Response Deviation *±2% of Vout (25% load Step)*
- Temperature Coefficient *±0.05%*
- Ripple/Noise *100mV(24V,15V,12V)
50mV(3.3V,5V)*
- Hold-up Time *15ms(Min.)*

Protection

- Over Voltage Protection *(Zener Diode Clamp)*
- Over Load Protection *(Fold Back)*
- Short Circuit Protection *(Auto Recovery)*

General

- Isolation Voltage (In/Out) *3000 Vac*
(In/FG) *1500 Vac*
(Out/FG) *500 Vac*
- Isolation Resistance *1G Ohm*
- Case Material *Plastic*
- Weight *135g*

Environmental

- Operating Temperature *-20℃~70℃ (Derating)*
- Storage Temperature *-40℃~85℃*
- Cooling *Free air convection*
- Humidity *20% ~ 95%RH*
- MTBF *>0.3 Million hours*

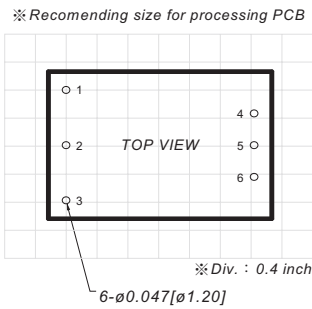
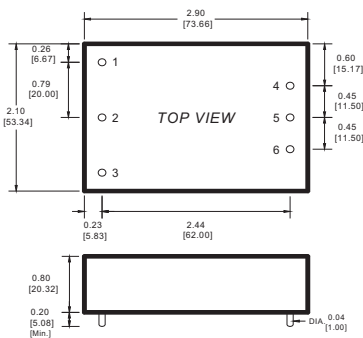
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Ordering Information

Module Number	Output Voltage	Output Current	Efficiency	Capacitor Load
HAZ20-S3P3	3.3V	6000mA	77%	4700uF
HAZ20-S05	5V	4000mA	78%	2200uF
HAZ20-S12	12V	1650mA	79%	1000uF
HAZ20-S15	15V	1340mA	79%	680uF
HAZ20-S24	24V	830mA	80%	470uF
HAZ20-D05	± 5V	± 2000mA	79%	± 1000uF
HAZ20-D12	± 12V	± 830mA	80%	± 470uF
HAZ20-D15	± 15V	± 670mA	81%	± 330uF
HAZ20-D24	± 24V	± 420mA	82%	± 220uF

Pin Define

Pin No.	1	2	3	4	5	6
Single	FG	ACN	ACL	-VO	NO PIN	+VO
Dual	FG	ACN	ACL	-VO	COM	+VO



Dimensions : inch [mm]
 Pin pitch tolerance : ±0.012 [0.30]

Notes

- All specification are typical at nominal line, full load, and 25 °C ambient air temperature.
- Ripple/Noise measured with a 1uF M/C and 100uF E/C (20MHz bandwidth).
- Certain applications may require to install an external 1.5A slow blow type fuse in front of the input.