

450W



DC-DC Converter
HS Sealed Series

Model
637 HS

Design Features

- Wide Range Input Voltage
- High Efficiency Design
- Hi Ingress Rating, IP 676
- Adjustable Output Voltage
- Optional Remote Output Voltage Sensing
- Optional Remote On/Off switching
- Low Voltage cutout
- High Voltage cutout
- Electronically Current Limited
- Thermally Protected
- Low No Load Power Consumption
- I/O Bayonet Quick Connection

| MODEL NO. | | 637 HS |
|-------------|-------------------------------------|--|
| INPUT | NOMINAL INPUT VOLTAGE RANGE | 12 VDC to 28 VDC |
| | MAXIMUM INPUT VOLTAGE RANGE | 10.5 to 32.0 (+, - 0.5) VDC |
| | INPUT CURRENT AT 10A OUTPUT CURRENT | 36A @ 11.5 Vin; 36.1 Vout |
| | INPUT CURRENT AT NO LOAD | <150 mA over entire input/output voltage ranges |
| OUTPUT | OUTPUT VOLTAGE NOMINAL | 36.0 VDC (factory adjusted) |
| | OUTPUT VOLTAGE ADJUSTMENT RANGE | 32.0 VDC to 42.0 VDC (internally accessible to user) |
| | OUTPUT LOAD REGULATION | 250 mV (without remote sensing) 50 mV (with remote sensing) |
| | OUTPUT VOLTAGE REGULATION | <2% |
| | OUTPUT RIPPLE | 50 mV RMS at maximum load (measured at 25C) |
| | MAXIMUM CONTINUOUS OUTPUT POWER | 450 W |
| | POWER SURGE | 550 W |
| | MAXIMUM LOAD CURRENT | 10 ADC, for output voltage setting 32.0 VDC - 42.0 VDC |
| PROTECTION | WORST CASE EFFICIENCY | 92.0% @ 50% max. power, 88.0% @ max. power |
| | LOW INPUT VOLTAGE SHUTDOWN | < 10.5 +/- 0.3 VDC |
| | HIGH INPUT VOLTAGE SHUTDOWN | > 32.0 +/- 1.0 VDC |
| | OVERLOAD SHUTDOWN | Set to shut off at 110% of maximum current with continuous automatic retry |
| | OVER TEMPERATURE SHUTDOWN | Via internal thermostat, self resetting |
| CONNECTIONS | COOLING | By Conduction through base plate and convection |
| | FUSING | Customer accessible |
| | INPUT/ OUTPUT CONNECTION | Via 9 pin Bayonet connector |
| GENERAL | REMOTE TURN ON | Via pin to -ve on input connector, may be disabled via internal jumper |
| | REMOTE SENSE | Via 2 pins on the output connector usage is optional |
| GENERAL | OPERATING TEMPERATURE RANGE | -40C to 70C, 100% loading |
| | OPERATING HUMIDITY | 100% |
| | INGRESS RATING | IP 676 |
| | MOUNTING SLOT CENTERS (in./cm.) | 6.0 x 7.3 / 15.2 x 18.5 |
| | DIMENSIONS, (in./cm.) (L x W x H) | 9.5 x 8.0 x 2.9 / 24.1 x 20.3 x 7.4 |
| | HOUSING MATERIAL | All Aluminum |
| | WEIGHT, (lb./kg.) | 10 / 4.5 |

NOTE: Specifications are subject to change without notice.

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