

660 CONSTANT CURRENT CONVERTERS

FEATURES

Input-to-output isolation

Fail-safe control

Remote on/off – TTL status

Isolated TTL status output

Foldback voltage limiting

Operating ambient temp. range: -40° to 85°C

Metal case (660A5)



The 660A1, 660A4, and 660A5 provide constant output currents from 48 V inputs. These modules are designed for line-feed power applications in telecommunication transmission systems. Advantages of constant-current line-feed power rather than linear regulator power include:

- Greatly simplified power administration and craft interface — requires no manual adjustment of individual powering circuits to compensate for loop length changes.
- No need for fuses to protect each loop from a large current flow.
- Improved power efficiency.

Output of the 660A1 and 660A5 is 60 mA up to 8 watts. The 660A4 output is 48 mA up to 6.5 watts. We provide isolation between the input, output, and status circuitry as protection against lightning surges up to 1,000 V and to minimize common-mode noise effects. To meet the safety requirements of transmission systems, output is limited to 140 V. The 660A1 and 'A4 modules are packaged in non-conductive plastic cases. The 660A5 is packaged in an aluminum case with a case ground pin.

SELECTION CHART

Code	Input Vdc	Output	Case
660A1	40-60	60 mA, 140 V	Plastic
660A4	36-72	48 mA, 120 V	Plastic
660A5	40-60	60 mA, 150 V	Metal

TYPICAL OUTPUT CHARACTERISTICS

Set Point Accuracy	±2%
Operating Output Resistance	140 Ω to 2200 Ω
Output Voltage Limit	140 Vdc
Output Ripple Current	1 mArms
Efficiency	79%

PRODUCT ATTRIBUTES

Isolation	1000 Vdc
Operating Ambient Temp.	-40° to 85°C
Storage Temperature	-40° to 110°C
Case Dimensions	2.20" L, 1.30" W, 0.50" H (metal) 2.29" L, 1.39" W, 0.05" H
Calculated MTBF (40°C case)	5 million hrs.

For more specific technical information, call 1-800-526-7819.

For product-specific data sheet and application/technical note, call 1-800-372-2447.

- **660 Series** Data Sheet DS91-217 EPS
- **Remote On/Off** App. Note AP91-036EPS