660 CONSTANT CURRENT CONVERTERS

FEATURES

Input-to-output isolation

Fail-safe control

Remote on/off – TTL status

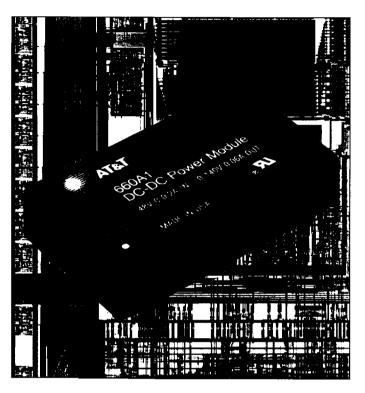
Isolated TTL status output

Foldback voltage limiting

Operating ambient temp. range:

-40° to 85°C

Metal case (660A3)



Code	Input Vdc	Output Current mAdc	Case Plastic Plastic Metal
660Å1	40-60	60	
660 A 2	36-72	48	
660A3	40-60	60	

The 660A1, 660A2, and 660A3 provide constant output currents from 48 V inputs. These modules are designed for line-feed power applications in telecommunications 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 660A3 is 60 mA up to 8 watts. The 660A2 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 'A2 modules are packaged in nonconductive plastic cases. The 660A3 is packaged in an aluminum case with a case ground pin.

TYPICAL OUTPUT CHARACTERISTICS

Set Point Accuracy $\pm 2\%$ Operating Output Resistance140 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 DS91-217EPS
- Remote On/Off App. Note AP91-036EPS