

Educational Media Foundation
5700 West Oaks Boulevard
Rocklin, CA 95765

Marion, AL
WFMA

Transmitter Power Output Calculation

DESCRIPTION: TRANSMITTER POWER OUTPUT

AUTHORIZED ERP: 24 KILOWATTS

8 BAY ERI LP-8E-DA ANTENNA GAIN: 7.183

536 FEET RFS 1-5/8 INCH AIR COAX (HCA158-50) EFFICIENCY: 0.786

SHORTING STUB SWR QWS-158-T-102.9 EFFICIENCY: .994

TPO: 4276.5783 WATTS

CONFIRMATION: $4276.5783 \times 7.183 \times 0.786 \times .994 = 23,999.997$ WATTS

NOTE: TPO IS SHOWN AS 4.277 KILOWATTS DUE TO ROUNDING AND RESOLUTION OF THE FORM