Other loss

$P_{other} = P_D - P_{FET} - P_L$

$= 0.92 - 0.36 - 0.2$

$= \boxed{0.36W}$

calculations for

Input voltage = 28V

output voltage = 14.8V

Output current = 1.9A

$R_{DSON1} = 0.29\Omega$

$R_{DSON2} = 0.13\Omega$

$P_{other} = 0.36W$

$R_{DCR} = 0.089\Omega$

$P_L = I_o^2 \times R_{DCR}$

$= 1.9 \times 1.9 \times 0.089$

$= \boxed{0.32W}$

$$P_{FET} = I_o^2 \left[\frac{V_o}{V_{in}} \times \left[R_{DSON1} - R_{DSON2} \right] + R_{DSON2} \right]$$

$$= 1.9 \times 1.9 \left[\frac{14.8}{28} \times \left[0.29 - 0.13 \right] + 0.13 \right]$$

$= \boxed{0.76W}$

$P_D = P_{FET} + P_L + P_{other}$

$= 0.76 + 0.32 + 0.36$

$= \boxed{1.44W}$

$$\eta = \frac{V_o \times I_o}{V_o \times I_o + P_D[14.8]}$$

$$= \frac{14.8 \times 1.9}{[14.8 \times 1.9] + 1.441}$$

$$= \frac{28.12}{29.561}$$

$$= 0.95 \times 100$$

$$= 95\%.$$

T_J at Ambient temperature 50°C

$$T_J = T_A + (P_D \cdot \theta_{JA})$$

$$= 50 + (1.441 \cdot 33.4)$$

$$= 98.129$$

T_J at ambient temperature 85°C

$$T_J = T_A + (P_D \cdot \theta_{JA})$$

$$85 + (1.441 \times 33.4)$$

$$= 133.1$$