66Watts <mark>ALO20F36</mark>

Total Power: Input Voltages: No. of Outputs: 66 Watts 19 - 60V Single

Wide Range Input



Special Features

- 2.3" x 0.9" Industry Standard 8th brick outline
- Wide Operating Input Voltage Range
- Regulation to zero load
- High Efficiency
- Fixed Frequency Switching for EMI predictability
- Industry Standard features: Input UVLO with hysteresis, Enable, OVP, OCP, OTP, Output VoltageTrim, Differential Remote Sense
- Meets Basic Insulation
- EU Directive 2002/95/EC compliant for RoHS

Environmental

Operating Ambient Temperature Openframe: -40°C to +85°C Ambient Storage temperature: -55°C to +125°C MTBF: > 1 Million Hrs

Safety

UL, cUL 60950 Recognized TUV EN60950 Licensed

Electrical Specs

Input Input Range

Input Surge Efficiency²

Output

- Line / Load Regulation Load Current Noise/Ripple¹ Transient Response
- Over Voltage Protection Over Current Protection Over Temperature Protection Switching Frequency Isolation Voltage

Control

Output Voltage Trim Enable 19 to 60 VDC 100V /100ms 91% @ 3.3V (typical)

< 0.1% V_O (typical) Up to 20A 50mV_{PK-PK} (typical) 3% typical deviation (50% to 75% Step Load) < 200µs settling time 125% V_O Typ (autorecovery) 125% I_{O,max} Typ (autorecovery) 115°C average PCB temperature (autorecovery) 400KHz 1500Vdc

±10% V_{O,NOM} TTL compatible (Positive or Negative Logic)



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ASTE

Ordering Information

Input Voltage	Output Voltage	Output Current	Efficiency ²	Model Number
19V to 60V	3.3V	20A	91%	ALO20F36(N) - (6)(L)

OPTIONS:

(N) : "N" = designates Negative Logic Enable (default is Positive Enable with no suffix "N" required)

(6) : "6" = 3.7mm nominal pin length (default is 5mm nominal pin length with no suffix "-6" required)

(L) : "L" = RoHS compliant (RoHS 6) / "Blank" = RoHS compliant with Lead (Pb) in solder exemption

Pin Assignment

Single Output

- 1. +Vin
- 2. Enable (On/Off)
- 3. -Vin
- 4. V_{OUT}
- 5. -Sense
- 6. Trim
- 7. +Sense
- 8. +V_{OUT}

Notes:

- 1. 20 MHz bandwidth. External 10 uF tant. capacitor in parallel with 0.1 uF ceramic capacitor placed across the output and secondary return ground.
- 2. Efficiency measurements are typical values taken at full load, 24V or 48V input and T_{A} = 25°C.
- 3. All specifications are typical at nominal line, full load and $T_A = 25^{\circ}C$ unless otherwise noted.
- 4. All specifications subject to change without notice.
- 5. Mechanical drawings are for reference only. Dimensions are in inches [mm]. Pin placement tolerance \pm 0.005 [0.127]. Mechanical Tolerance \pm 0.02 [0.5]. Through hole pin diameter (Pins 4 & 8) $\emptyset = 0.062$ [1.57], others $\emptyset = 0.04$ [1.0] (6X).
- 6. Technical Reference Notes should be consulted for detailed information when available.
- 7. Warranty 1yr.

This is a Preliminary Data Sheet. Astec reserves the right to make changes to the information contained herein without notice and assumes no liability as a result of its use and application. (REV 03: MARCH 8, 2007)

ALO - OPENFRAME



PIN SIDE UP



PIN LENGTH	А
Std Pin Length:	0.189 [4.8] MIN
	0.205 [5.2] MAX
"-6" Option:	0.137 [3.5] MIN
	0.152 [3.9] MAX



Astec Industry Standarc