

AS20/30-G Series

20W/30W, Isolated&Regulated Single Output AC-DC Converter



Characteristics:

- CE-EMC/LVD Certificate
- Industrial / Military Products
- Rated Power: 20W ~ 30W
- Full Voltage Input: AC85~265V or DC100~375V
- Single Regulated Output
- Isolated Voltage: $\geq 1500\text{VDC}$
- Terminal Output, 6 sides metal shielding
- Dimensions: 98×52×21mm

Product List

Input Voltage (VAC/VDC)	Output Voltage (VDC)		Output Current (A)		Efficiency (%)(Typ.)	Part Number
	Vo1	Vo2	Io1	Io2		
85-265VAC or 100-375VDC	5		4		82	AS20-05-G
	12		1.66		85	AS20-12-G
	15		1.33		85	AS20-15-G
	24		0.83		87	AS20-24-G
	28		0.7		87	AS20-28-G
	48		0.41		88	AS20-48-G
	5		6		82	AS30-05-G
	12		2.5		85	AS30-12-G
	15		1.66		85	AS30-15-G
	24		1.24		87	AS30-24-G
	28		1		87	AS30-28-G
	48		0.625		88	AS30-48-G

Specifications

Input

Input Voltage	AC85 ~ 265V	DC100 ~ 375V
Startup Time	\leq Rated Load, Nominal Input Voltage	$\leq 10\text{ms}$

Output

Output Power	$T_a \leq 55^\circ\text{C}$	AS20 Series	20W
		AS30 Series	30W
Voltage Accuracy	rated load, nominal input voltage: 25°C	Vo	$\leq \pm 1.0\%$ (nominal)
Line Voltage Regulation	nominal input, full voltage input range	Vo	$\pm 0.2\%$ (nominal)
Load Regulation	nominal input, 10%~100% nominal load	Vo	$\leq \pm 0.5\%$ (nominal)
Over Current Protection	Full Input voltage Range, $T_c < T_{cmax}$		$\geq 120\%$
OV Protection Mode			No
Ripple & Noise	Rated Load, Full Input voltage Range		$< 1\%V_o$
OT Protection			$90\sim 95^\circ\text{C}$, Auto Recovery
Dynamic Response	25% Rated Load	$\Delta V_o / \Delta t$	200uS

General		
Switching Frequency	Typ.	100~200KHz
Insulation Resistance	Test at 500VDC	500MΩ
Insulation Voltage	Input/Output, Input&Output/Enclosure	≥1500VDC
Operating Temp.	≤Rated Load (Industrial Grade)	-25℃ ~ +55℃
	≤Rated Load (Aerospace Grade)	-40℃ ~ +70℃
Storage Temp.	Humidity≤90%	-40℃ ~ +105℃
Temperature Coefficient		<0.02%/℃
Enclosure Temp.		-25℃ ~ +100℃
Anti Vibration		10~55Hz 5g
MTBF	Ta=25℃	2×10 ⁶ h
Cooling Method		Natural Cooling
Enclosure Material		6 sides metal shielding
Safety Standard	UL1950、IEC950、CCEE	