

The HUM100 series of wide input 12V/24V input, isolated converters are designed for high reliability and are ideally suited to automotive, industrial and communication applications.

Powerful Performance

Designed for harsh environments, the rugged power supply has an integrated heatsink and is over-current and temperature protected.



The wide 4:1 input range of 9-36V is ideal to offer flexibility in an extensive range of applications.

Features include:

- 4:1 input range
- Up to 90% efficiency
- 100W isolated output
- Regulated output
- Continuous short circuit protection
- Over-temperature protection
- Over-current protection
- Integral heatsink
- Rugged metal enclosure
- High reliability
- Remote On/Off control

Part number	Input Voltage		Output	
	Nominal (V dc)	Range (V dc)	Voltage (V dc)	Current (A)
HUM-100W-3.3	12 / 24	9 - 36	3.3	30
HUM-100W-5.0	12 / 24	9 - 36	5.0	20
HUM-100W-12	12 / 24	9 - 36	12	8.3
HUM-100W-13.8	12 / 24	9 - 36	13.8	7
HUM-100W-15	12 / 24	9 - 36	15	6.7
HUM-100W-24	12 / 24	9 - 36	24	4.2
HUM-100W-27	12/24	9 - 36	27.6	3.6
HUM-100W-30	12 / 24	9 - 36	30	3.3
HUM-100W-36	12 / 24	9 - 36	36	2.7
HUM-100W-48	12 / 24	9 - 36	48	2.1

INPUT SPECIFICATIONS

Input voltage range	Description	Min	Nom	Max	Units
Input voltage		9	12 / 24	36	V dc
Remote on/off control	Guaranteed on when left open. Turn on voltage min 3.5V, max Vin. Turn off voltage min 0V, max 0.3V				

OUTPUT SPECIFICATIONS

Output voltage specs	Description	Min	Nom	Max	Units
Voltage accuracy				± 1	%
Transient response	25% step load change			±3% in 200msec	msec
Noise and ripple	Vout Less than 5V Vout between 5V and 48V Vout greater than 48V			50 100 180	mVpp
Line regulation				± 0.2	%
Load regulation				0.5	%

GENERAL SPECIFICATIONS

General specs	Description	Min	Nom	Max	Units
Switching frequency			300		KHZ
Operating ambient temperature	Derated from 50 to 85°C	-40		85	°C
Storage temperature		-55		105	°C
Relative humidity		10		90	%
MTBF	3 x 10 ⁵ Hrs				
Enclosure	Aluminium				

ISOLATION SPECIFICATIONS

Parameter	Description	Min	Nom	Max	Units
Isolation voltage	Input / output	1500			V

HUM100 Series

DC/DC Converter , Wide Input 9-36VDC 100W

