

154.001

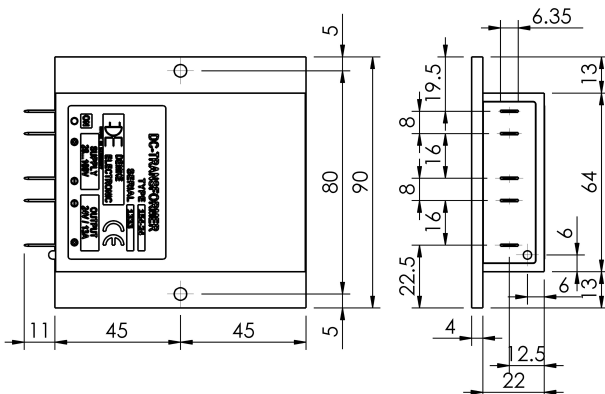
154-24

300 Watt single output



Mechanical dimensions and Pin configuration

All dimensions in mm
Connector type: Flat pin plug 6.3mm



Pin No.	Function	Electrical Determination
1	On	Enable
2	Vi+	Input voltage positive
3	Vi-	Input voltage negative
4	Vo-	Output voltage negative
5	Vo+	Output voltage positive

- connect ON to Vi+ to enable transformer
- for active loads, can be connected in parallel

General

- Ultrawide input voltage range of 1:5.7
- Very high efficiency up to 97%
- Very low input ripple and noise
- Integrated EMI input and output filter
- Continuous no load and short circuit proof
- Very compact sized 90x90x26 mm
- For ambient temperatures up to +85°C
- No derating

Description

Test conditions, unless otherwise noted:
Vi_nom = 80VDC and full load, Ta = 25°C
all measurements without external components

Input voltage range	28...160 VDC
Vout/Iout	24 VDC/ 12.5 ADC
Input startup voltage	22 VDC
Undervoltage lockout	20 VDC
Initial switch-on time	60 ms
Input surge voltage	170VDC
No-load input current	10 mA
Input current in shutdown condition	2 mA
Input current overshoot at initial switch on	200%
Input reflected ripple current	20 mAAC
Input ripple (BW=20MHz)	300 mVAC
Input noise (BW=20MHz)	50 mVAC
Switching frequency	130 kHz
Output voltage accuracy	±2% max
Output ripple (BW=20MHz)	30 mVAC
Output noise (BW=20MHz)	50 mVAC
Static line regulation	0.3%
Static load regulation	0.1%
Dynamic load regulation	7ms
Max. admissible capacitive load at FL	"infinite" µF
Output overvoltage protection	27VDC...29VDC
Efficiency at half/full load	95/94%
Ambient temperature range	-40...+85°C
Storage temperature range	-40...+95°C
Max. case temperature for shut down	+90°C

Designed to meet:

EN55022<A, EN61000-6-3, EN61000-4-2, EN61000-4-3,
EN61000-4-4, EN61000-4-5