

Temp test with 4 ohms with Rigol DP832

@4ohm resistive load on each channel, Output from Rigol DG1022 - 1Vrms input RCA in both L+R channel
sweep from 10Hz - 25k for 10seconds - then repeat automatically, (about 10,35V x 2,48 Ampere = 25WATT)

Ambient 22°C at Start, Temp measurement tool is Voltcraft IR-230

no true rms DDM in channel L for current

no true rms DMM in channel R for Voltage

AMP 1 (LM49720), PSU is DP832 both channels parallel (24V, 6Amps max)

running Time - [minutes]	Colis Temp °C	Heatsink °C	IRF9530 °C	LM317 °C
00:00	Error LED occurred --> restart			
03:10	R channel off - no Error LED --> restart + recooling			
	45 (39)	36	33	30
restart 4 times	no Error LED occurred but no signal on both channels			
00:00	Error LED occurred --> restart, recooling			
03:07	R channel off - no Error LED			
	48 (40)	40	40	33

stooped testing at 4 ohms, several times the amp is not reacting with signal --> both channel dead

power consumption during running of both channels about 60W into the amp.

if one channels is off the power consumption goes down to approx. 26 Watt.

power consumption is at idle mode.....at 24V is 20mA = 500mW

iff amp is switched on power consumption is at 24V 160mA = 3,8 WATT