

POWER CONSUMPTION MEASUREMENTS FOR TELEVISION
TELEVIZYON İÇİN GÜÇ TÜKETİM ÖLÇÜMLERİ

PRODUCT INFORMATION / MAMÜL BİLGİLERİ											
Aquila No / Aquila Nu.	9996			Panel:	N/A						
Product No / Mamül Kodu :	A43PLU 5045AW-4021112400712			Size / Ekran boyu:	43	Resolution / Çözünürlük (HD / FHD / UHD)	UHD				
Ratings on back label / Arka Kapak Değerleri :	Voltage / Freq.	Power		Software / Yazılım:	N/A		Product Type / Ürün Tipi	TV			
	220-240V ~ 50/60 Hz	N/A		Acoustic-speaker / Akustik-hoparlör:	N/A		Panel (LCD / OLED)	LCD			
				LCD Panel File / Panel Dosyası:	N/A		Eco PWM Max PWM:	100	100		
Cabinet / Kabin:	N/A			LED Dri Code / LED Dri. Vers:	N/A						
PSU code / Pcb vers.:	TP.MS8386.190W			Chassis / Şasi pcb vers.:	TP.MS8386.190W						
Resistive Load / Yük:	2	X	8 Ω	Page / Sayfa No.:	1/1						

Test conditions:

- Each measurements should be performed after stabilization of power consumption. (Minimum 30min. operating)
- Mains frequency changing (50 or 60hz) considered as not affecting total power consumption significantly.
- PowerSupply: Pacific 350 AMX/Kikusui PCR2000-4000 ; PowerMeter: Yokogawa- WTZ10/ WT310
- Test pattern1 : Test signal obtained from European Union according to 2019/2021/EU Annex III (for Test no: 1 and 2)
- Test pattern2 : Three Pattern Bar with 1kHz sinusoidal Audio signal (for Test no: 4.5)
- Test pattern3 : Test signal obtained from European Union according to 2019/2021/EU Annex III (for Test no: 3)
- Test pattern4 : Pluge Pattern for STIWA measurement
- Tested input terminal : HDMI (for Test no 1,2,3)
- Standby measurements (≤0.5W) should be applied with shunt set-up.
- Check Yokogawa power analyser set-ups, connections and wirings before measurements.
- For standby measurement average method chosen and 20 min warm up and 20 min measurement must be applied
- For test 2 EEI should be below 1.10 for UHD, 0.9 for FHD and HD

MEASUREMENTS / ÖLÇÜMLER													
TES+B 34:059 T NO	SPECIFICATION	VOLTAGE Un (V)	FREQUENCY (Hz)	CURRENT In (A)	POWER P n (W)	Energy Efficiency Index	Energy Class measured	Energy Class declared	V sound out (Vrms)	P sound out (W)	Energy Calculated	Energy Declared	
1	ON POWER SDR (Energy Labelling: 2019/2013) (IEC 62087:2015 modified by 2019/2021 Annex III)	230	50/60	0,557	124,30	2,14	G	G		50mW	124,30		
						0,52	C		181,48				
2	ON POWER SDR (Ecodesign Regulation: 2019/2021- Manufacturing Limit) (IEC 62087:2015 modified by 2019/2021 Annex III)	230	50/60			2,02	N/A	N/A	N/A	50mW	N/A	N/A	
3	ON POWER HDR (Ecodesign Regulation: 2019/2021 Energy Labelling: 2019/2013) (CLASP HDR-10 Content)	230	50/60	0,556	124,20	2,14	G			50mW	62,38		
													ON POWER HDR (Ecodesign Regulation: 2019/2021 Energy Labelling: 2019/2013) (CLASP HDR-HLG Content)
4	ON POWER (IEC 62087:2015) (All controls at maximum)	90	50/60	1,558	135,00	N/A	N/A	N/A	4,40	2,42	N/A	N/A	
		220	50/60	0,600	128,94	N/A	N/A	N/A	4,40	2,42	N/A	N/A	
		240	50/60	0,555	128,76	N/A	N/A	N/A	4,40	2,42	N/A	N/A	
		264	50/60	0,512	128,10	N/A	N/A	N/A	4,40	2,42	N/A	N/A	
5	ON POWER (IEC 60065:2014 IEC 62368-1) (All Controls at max. except Volume:1/8 of maximum.)	90	50/60	1,505	133,00	N/A	N/A	N/A	1,54	0,30	N/A	N/A	
		220	50/60	0,581	124,70	N/A	N/A	N/A	1,54	0,30	N/A	N/A	
		240	50/60	0,538	124,50	N/A	N/A	N/A	1,54	0,30	N/A	N/A	
		264	50/60	0,497	124,50	N/A	N/A	N/A	1,54	0,30	N/A	N/A	
6	STANDBY POWER (ErP regulation:EC No: 2019/2021) (EN 50564:2011)	230	50/60	Nor. HDMI	0,049	0,302	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Nor. Sate.									
				USB	0,047	0,304							
				Wi-Fi									
				LAN									
7	Off Mode	SW Off	230	50/60			N/A	N/A	N/A	N/A	N/A	N/A	
8	Pek Luminance Ratio %	ECO:	557	PEAK:	557				100,00%		N/A	N/A	
9	Automatic Power Down after 4 hours:			TV shut down automatically after 4 hours of non-activity			Checked:	<input type="checkbox"/>			N/A	N/A	
							Time:				N/A	N/A	

STIWA SCORE MEASUREMENTS / STIWA ÖLÇÜMLERİ

- Pluge pattern is played with USB source.
- Brightness is measured from white area at top right corner.
- If brightness is above 220 nits, it should be decreased. Backlight mode should be configured as user, and manual backlight should be decreased until brightness is 220 nits.
- If the brightness is below 220 nits, no change is needed.
- After 220 nits configuration, power consumption shall be measured for 1 hour.

Pluge pattern brightness (before) (nits):	
Pluge pattern brightness (after) (nits)*:	
Power consumption after 1 hour (W):	
Standby power consumption (W):	

Notes / Notlar:

- Şase projelerinde gelen mamüllerde tüm kaynaklardan Stand-by ve On Mode güçleri ölçülmüldür. Her bir kaynak için ayrı form yapılır. HDMI 1'den tüm form doldurulur. Diğer kaynaklar için 1 ve 6 numaralı testler yapılır.
- Güç sınıfının belirlenmesi için "Size", "Çözünürlük" ve "Ürün Tipi"nin mutlaka doldurulması gerekiyor.
Çözünürlük için: HD / FHD / UHD değerlerinden birini
Ürün tipi için TV / M / VW değerlerinden birini giriniz.
- Stiwa ölçümlerindeki Pluge pattern parlaklığı ile PLR hesabında kullanılan eco parlaklık aynı değildir.

Prepared by: Hazırlayan:	BÜLENT SÖZ	Approved by: Kontrol Eden:	HÜSEYİN İÇMEN
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