

DIRECTV is a signatory to the [Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Set-Top Boxes](#) (“VA”). As a signatory, DIRECTV is committed to procure 90% of its new set-top boxes per the ENERGY STAR® Version 3.0 standard ([2014 Annual Report](#)). We also agreed to provide Typical Energy Consumption (TEC) for set-top box models that are available to customers. The information of those devices is provided below. More information about DIRECTV’s sustainability program is [available here](#).

Set-Top Box Models, Functionality and Energy Consumption

Description	Model	Functionality	Energy Consumption			ENERGY STAR Version
			On (W)	Off (W)	TEC (kWh / yr)	
Thin Client	C31-700	APD, AVP, HD, HNI	5.9	4.5	43.2	3
Thin Client	C41-100	APD, AVP, HD, HNI	5.57	4.15	39.9	4.1
Thin Client	C41-500	APD, AVP, HD, HNI	5.6	4.04	39.38	4.1
Thin Client	C41-500	APD, AVP, HD, HNI	5.4	4.1	39	3
Thin Client	C41-700	APD, AVP, HD, HNI	5.213	3.66	36.14	4.1
Thin Client	C41W-100	APD, AVP, HD, HNI	7.2	7.2	52.86	4.1
Thin Client	C41W-500	APD, AVP, HD, HNI	7.17	5.73	53.746	4.1
Thin Client	C51-100	APD, AVP, HD, HNI	6.38	3.69	39.22	4.1
Thin Client	C51-500	APD, AVP, HD, HNI	5.64	3.64	37.15	4.1
Thin Client	C51-700	APD, AVP, HD, HNI	6.08	4.22	41.89	4.1
Non-DVR	D12-100		7.9	6.2	62.9	3
Non-DVR	D12-700		6.3	5.3	51.5	3
Non-DVR	H24-200	APD, AVP, HD, HNI	14	11.3	105.9	3
Non-DVR	H24-700	APD, AVP, HD, HNI	13.7	11.5	106.5	3
Non-DVR	H25-100	APD, AVP, HD, HNI	10.32	10.32	78.563	4.1
Non-DVR	H25-500	APD, AVP, HD, HNI	12.2	11	99.3	3
Non-DVR	H25-700	APD, AVP, HD, HNI	9.9	9.2	82.1	3
DVR	HR24-100	APD, AVP, DVR, HD, MR, MS-C/S	22.5	22.4	196.2	3
DVR	HR24-200	APD, AVP, DVR, HD, MR, MS-C/S	23	21	189.3	3
DVR	HR24-500	APD, AVP, DVR, HD, MR, MS-C/S	24.5	22.6	202.7	3
DVR	HR34-700	APD, AVP, DVR, HD, MR, MS-C/S	28.5	26.9	239.5	
DVR	HR44-200	APD, AVP, DVR, HD, MR, MS-C/S	19.29	18.03	158.63	4.1
DVR	HR44-500	APD, AVP, DVR, HD, MR, MS-C/S	19.7	18.8	167	3
DVR	HR44-700	APD, AVP, DVR, HD, MR, MS-C/S	18.46	17.42	149.44	4.1
Non-DVR	LH27-100	APD, AVP, HD, HNI	10.26	8.39	78.43	4.1
Non-DVR	LH27-500	APD, AVP, HD, HNI	10.57	8.36	78.8	4.1
DVR	SHR44-700	APD, AVP, DVR, HD, HNI, MR, MS-C/S	15.51	14.99	118.77	4.1
DVR	SHR44-700	APD, AVP, DVR, HD, HNI, MS-C/S	14.81	13.79	123.51	4.1
Non-DVR	H44-100	APD, AVP, HD, MR, MS-C/S	9.9	8.96	75.01	4.1
DVR	H44-100	APD, AVP, DVR, HD, MR, MS-C/S	11.55	10.35	86.48	4.1
Non-DVR	H44-100	APD, AVP, HD, HNI, MS-C/S	9.79	9.05	80.91	4.1

DVR	H44-100	APD, AVP, DVR, HD, HNI, MS-C/S	11.4	10.3	93.04	4.1
Non-DVR	L14-100		4.62	4.05	38.37	4.1
DVR	H44-500	APD, AVP, DVR, HD, MR, MS-C/S	11.47	11.47	87.83	4.1
Non-DVR	H44-500	APD, AVP, HD, HNI, MS-C/S	10.37	10.37	84.58	4.1
DVR	H44-500	APD, AVP, HD, MR, MS-C/S	10.49	10.49	78.04	4.1
Non-DVR	H44-500	APD, AVP, DVR, HD, HNI, MS-C/S	11.43	11.43	94.36	4.1
Thin Client	C61K-700	APD, Ultra HD, TC HEVP, HNI	9.5	9.5	49.29	4.1

Set-Top Box Features, Descriptions and Allowances

Feature	Description	ENERGY STAR TEC allowance (kWh/yr)
APD	Automatic power down (APD) monitors parameters correlated with user activity or viewing; if the parameters collectively indicate that no user activity or viewing is occurring, the APD feature enables the device to transition to a sleep mode or OFF mode	N/A
AVP	Advanced video processing (AVP) enables set-top box to encode, decode, and/or transcode audio/video signals	N/A
DVR	A digital video recorder (DVR) allows set-top boxes to store digital video files to a rewritable disk or other integrated storage device	45
HD	High definition (HD) makes set-top boxes capable of transmitting video signals with resolution greater than or equal to 720p	N/A
HNI	Home network interfaces (HNIs) allow set-top boxes to interface with external devices via a high-bandwidth local area network	17
MR	Multi-room (MR) functionality enables set-top boxes to provide independent audio/video content to multiple devices within a single household	56
MS-C/S	Multi-stream (MS) for cable and satellite (C/S) is the capability to deliver multiple simultaneous audio/video streams to a single display, thin-client/remote set-top box, or recording device over coax or via satellite	16
TC HEVP	Thin client high efficiency video processing: Video decoding providing compression efficiency significantly higher than H.264/AVC, for example HEVC (H.265)	5