

CITIZEN ELECTRONICS CO. – ERP Cross Reference



		Current (mA)																										
		200	250	280	285	300	350	380	400	450	460	500	550	620	700	800	850	900	1000	1050	1200	1400	1600	1750	1800	1900	2000	2100
CLU024	1201B8-xxxxxxx		✓	✓	✓	✓	✓																					
	1202B8-xxxxxxx		✓	✓	✓	✓	✓																					
	1203B8-xxxxxxx			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓															
	1204B8-xxxxxxx							✓	✓	✓	✓	✓	✓	✓	✓	✓												
CLU034	1205B8-xxxxxxx									✓	✓	✓	✓	✓	✓	✓	✓	✓	✓									
	1206B8-xxxxxxx											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							
	1208B8-xxxxxxx													✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
CLU044	1212B8-xxxxxxx																			✓	✓	✓	✓	✓	✓	✓	✓	✓
	1812B8-xxxxxxx																			✓	✓	✓	✓	✓	✓	✓	✓	✓
	1818B8-xxxxxxx																			✓	✓	✓	✓	✓	✓	✓	✓	✓
CLL020 CLL022	1202A5-xxxxxxx	✓																										
	1203A5-xxxxxxx	✓	✓	✓	✓	✓	✓																					
	1204A5-xxxxxxx		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
CLL030 CLL032	1205A5-xxxxxxx				✓	✓	✓	✓	✓	✓	✓	✓	✓															
	1206A5-xxxxxxx						✓	✓	✓	✓	✓	✓	✓	✓	✓													
	1208A5-xxxxxxx							✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	1212A5-xxxxxxx											✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CLL040 CLL042	1218A5-xxxxxxx																			✓	✓	✓	✓	✓	✓	✓	✓	✓
	1818A5-xxxxxxx																			✓	✓	✓	✓	✓	✓	✓	✓	✓

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CITIZEN ELECTRONICS CO. – ERP Cross Reference

Citizen LED SPECIFICATION					ERP LED DRIVER SPECIFICATION								
Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
CLU024													
1202: 180mA (nom), 360mA (max) / 1203: 270mA (nom), 540mA (max) / 1204: 360mA (nom), 720mA (max)													
1202@250mA	250	31.8	34.6	37.3	EBR010U-0250-42	120 Vac, 87% eff. Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
					EBR010E-0250-42	220/230/240 Vac, 87% eff. Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
					ESS010W-0250-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	250	10.5	30	37.8	42
					ELP009U-0250-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	250	10.3	24	36.4	41
1202@280mA	280	31.8	34.6	37.3	ESM020W-0280-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	280	11.8	24	37.8	42
1202@285mA	285	31.8	34.6	37.3	EBR010U-0285-42	120 Vac, 87% eff. Round Plastic Case	Forward/Reverse Phase	1-100%	285	12.0	30	37.8	42
1202@300mA	300	31.8	34.6	37.3	EBR015U-0300-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
					EBR015E-0300-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
					ELP012U-0300-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	300	12.3	24	36.4	41
					ESS015W-0300-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	300	12.6	24	37.8	42
1202@350mA	350	31.8	34.6	37.3	EBR015U-0350-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
					EBR015E-0350-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
					ERP020W-0350-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	14.7	31.5	39	42
					ESM020W-0350-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
					ESS015W-0350-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
1203@280mA	280	31.8	34.6	37.3	ESM020W-0280-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	280	11.8	24	37.8	42
1203@285mA	285	31.8	34.6	37.3	EBR010U-0285-42	120 Vac, 87% eff. Round Plastic Case	Forward/Reverse Phase	1-100%	285	12.0	30	37.8	42
1203@300mA	300	31.8	34.6	37.3	EBR015U-0300-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
					EBR015E-0300-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
					ELP012U-0300-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	300	12.3	24	36.4	41
					ESS015W-0300-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	300	12.6	24	37.8	42
1203@350mA	350	31.8	34.6	37.3	EBR015U-0350-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
					EBR015E-0350-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
					ERP020W-0350-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	14.7	31.5	39	42
					ESM020W-0350-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
					ESS015W-0350-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
1203@380mA	380	31.8	34.6	37.3	ELR018U-0380-42	120 Vac, 84% eff., Round Plastic Case	Forward/Reverse Phase	10-100%	380	16.0	24	37	42
1203@400mA	400	31.8	34.6	37.3	EBR020U-0400-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
					ESS020W-0400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	18.9	24	37.8	42
					EBR020E-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
1203@450mA	450	31.8	34.6	37.3	ELP018U-0450-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	450	18.5	24	36.4	41
					ERP020W-0450-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42
					ESS020W-0450-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42
1203@460mA	460	31.8	34.6	37.3	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42
1203@500mA	500	31.8	34.6	37.3	EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42
					EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42
					ESM030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42
					ESS030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42



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Citizen LED SPECIFICATION					ERP LED DRIVER SPECIFICATION								
Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
CLU024													
1202: 180mA (nom), 360mA (max) / 1203: 270mA (nom), 540mA (max) / 1204: 360mA (nom), 720mA (max)													
1204@380mA	380	31.8	34.6	37.3	ELR018U-0380-42	120 Vac, 84% eff., Round Plastic Case	Forward/Reverse Phase	10-100%	380	16.0	24	37	42
1204@400mA	400	31.8	34.6	37.3	EBR020U-0400-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
					ESS020W-0400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	18.9	24	37.8	42
					EBR020E-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
1204@450mA	450	31.8	34.6	37.3	ELP018U-0450-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	450	18.5	24	36.4	41
					ERP020W-0450-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42
					ESS020W-0450-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42
1204@460mA	460	31.8	34.6	37.3	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42
1204@500mA	500	31.8	34.6	37.3	EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42
					EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42
					ESM030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42
					ESS030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42
1204@550mA	550	31.8	34.6	37.3	ERP030W-0550-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	550	23.1	31.5	39	42
					ESM030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
					ESS030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
1204@620mA	620	31.8	34.6	37.3	ESS030W-0620-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	620	26.0	24	37.8	42
1204@700mA	700	31.8	34.6	37.3	ERP030W-0700-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	29.4	31.5	39	42
					ESM030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
					ESS030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42



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Citizen LED SPECIFICATION					ERP LED DRIVER SPECIFICATION								
Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
CLU034													
1205: 450mA (nom), 900mA (max) / 1206: 540mA (nom), 1080mA (max) / 1208: 720mA (nom), 1440mA (max)													
1205@450mA	450	31.8	34.6	37.3	ELP018U-0450-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	450	18.5	24	36.4	41
					ERP020W-0450-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42
					ESS020W-0450-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42
1205@460mA	460	31.8	34.6	37.3	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42
					EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42
1205@500mA	500	31.8	34.6	37.3	EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42
					ESM030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42
					ESS030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42
					ERP030W-0550-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	550	23.1	31.5	39	42
1205@550mA	550	31.8	34.6	37.3	ESM030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
					ESS030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
					ERP030W-0620-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	620	26.0	24	37.8	42
1205@620mA	620	31.8	34.6	37.4	ERP030W-0700-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	29.4	31.5	39	42
					ESM030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
1205@700mA	700	31.8	34.6	37.4	ESS030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
					ERP040W-0800-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	800	33.6	31.5	39	42
					ESM040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42
1205@800mA	800	31.8	34.6	37.4	ESP040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42
					ERP040W-0850-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	850	35.7	31.5	39	42
					ESM040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42
1205@850mA	850	31.8	34.6	37.4	ESP040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42
					ERP040W-0900-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	37.8	31.5	39	42
					ESM040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42
1205@900mA	900	31.8	34.6	37.4	ESP040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42
					ERP030W-0550-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	550	23.1	31.5	39	42
1206@550mA	550	31.8	34.6	37.3	ESM030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
					ESS030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42
					ERP030W-0700-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	29.4	31.5	39	42
1206@620mA	620	31.8	34.6	37.4	ESM030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
					ESS030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
1206@700mA	700	31.8	34.6	37.4	ERP040W-0800-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	800	33.6	31.5	39	42
					ESM040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42
					ESP040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42
1206@800mA	800	31.8	34.6	37.4	ERP040W-0850-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	850	35.7	31.5	39	42
					ESM040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42
					ESP040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42
1206@850mA	850	31.8	34.6	37.4	ERP040W-0900-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	37.8	31.5	39	42
					ESM040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42
					ESP040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42
1206@900mA	900	31.8	34.6	37.4	ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42
					ESM050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
1206@1000mA	1000	31.8	34.6	37.4	ESP050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
					ELM050W-1000-48	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1000	48.0	24	43.2	48
1206@1050mA	1050	31.8	34.6	37.4	ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42
					ESM050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
					ESP050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42



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Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
CLU034													
1205: 450mA (nom), 900mA (max) / 1206: 540mA (nom), 1080mA (max) / 1208: 720mA (nom), 1440mA (max)													
1208@700mA	700	31.9	34.7	37.4	ERPO30W-0700-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	29.4	31.5	39	42
					ESM030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
					ESS030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42
1208@800mA	800	31.9	34.7	37.4	ERPO40W-0800-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	800	33.6	31.5	39	42
					ESM040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42
					ESP040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42
1208@850mA	850	31.9	34.7	37.4	ERPO40W-0850-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	850	35.7	31.5	39	42
					ESM040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42
					ESP040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42
1208@900mA	900	31.9	34.7	37.4	ERPO40W-0900-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	37.8	31.5	39	42
					ESM040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42
					ESP040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42
					EVBO40W-0900S-42	120 to 277 Vac, 87% eff., Ballast Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	30	37.8	42
1208@1000mA	1000	31.9	34.7	37.4	ELM050W-1000-48	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1000	48.0	24	43.2	48
1208@1050mA	1050	31.9	34.7	37.4	ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42
					ESM050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
					ESP050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
1208@1200mA	1200	31.9	34.7	37.4	ERM050W-1200-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1200	50.4	32	37.8	42
					ESM050W-1200-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42
					ESP050W-1200-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42
1208@1400mA	1400	31.9	34.7	37.4	ERM060W-1400-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1400	58.8	32	37.8	42
					ESP060W-1400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	24	37.8	42
					EVM060W-1400-42-COB	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	30	37.8	42



CLU034

CITIZEN ELECTRONICS CO. – ERP Cross Reference

Citizen LED SPECIFICATION					ERP LED DRIVER SPECIFICATION								
Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
CLU044													
1212: 1080mA (nom), 2160mA (max) / 1812: 1080mA (nom), 2160mA (max) / 1818: 1620mA (nom), 2160mA (max)													
1212@1050mA	1050	31.9	34.7	37.4	ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42
					ESM050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
					ESP050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
1212@1200mA	1200	31.9	34.7	37.4	ERM050W-1200-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1200	50.4	32	37.8	42
					ESM050W-1200-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42
					ESP050W-1200-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42
1212@1400mA	1400	31.9	34.7	37.4	ERM060W-1400-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1400	58.8	32	37.8	42
					ESP060W-1400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	24	37.8	42
					EVM060W-1400-42-COB	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	30	37.8	42
1212@1600mA	1600	31.9	34.7	37.4	ERM060W-1600-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1600	67.2	32	37.8	42
1212@1750mA	1750	31.9	34.7	37.4	ERM060W-1750-40	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1750	70.0	30	36	40
1212@1800mA	1800	31.9	34.7	37.4	EVB080W-1800S-42	120 to 277 Vac, 87% eff., Ballast Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1800	75.6	30	37.8	42
1212@1900mA	1900	31.9	34.7	37.4	EVM080W-1900-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1900	79.8	30	37.8	42
1212@2000mA	2000	31.9	34.7	37.4	EVM090W-2000-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	2000	84.0	30	37.8	42
1212@2100mA	2100	31.9	34.7	37.4	EVM100W-2100-45	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	2100	94.5	32	40.5	45



CLU044

CITIZEN ELECTRONICS CO. – ERP Cross Reference

Citizen LED SPECIFICATION					ERP LED DRIVER SPECIFICATION								
Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
CLL020/CLL022													
1202: 120mA (nom), 240mA (max) / 1203: 180mA (nom), 360mA (max) / 1204: 240mA (nom), 480mA (max)													
1202@200mA	200	33.6	36.2	39.9	EBR010U-0200-42	120 Vac, 87% eff. Round Plastic Case	Forward/Reverse Phase	1-100%	200	8.4	30	37.8	42
					EBR010E-0200-42	220/230/240 Vac, 87% eff. Round Plastic Case	Forward/Reverse Phase	1-100%	200	8.4	30	37.8	42
1203@200mA	200	33.6	36.2	39.9	EBR010U-0200-42	120 Vac, 87% eff. Round Plastic Case	Forward/Reverse Phase	1-100%	200	8.4	30	37.8	42
					EBR010E-0200-42	220/230/240 Vac, 87% eff. Round Plastic Case	Forward/Reverse Phase	1-100%	200	8.4	30	37.8	42
1203@250mA	250	33.6	36.2	39.9	EBR010U-0250-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
					EBR010E-0250-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
					ELP009U-0250-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	250	10.3	24	36.4	41
					ESS010W-0250-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	250	10.5	24	37.8	42
1203@280mA	280	33.6	36.2	39.9	ESM020W-0280-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	280	11.8	24	37.8	42
1203@285mA	285	33.6	36.2	39.9	EBR015U-0285-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	285	12.0	30	37.8	42
1203@300mA	300	33.6	36.2	39.9	EBR015U-0300-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
					EBR015E-0300-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
					ELP012U-0300-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	300	12.3	24	36.4	41
					ESS015W-0300-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	300	12.6	24	37.8	42
1203@350mA	350	33.6	36.2	39.9	EBR015U-0350-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
					EBR015E-0350-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
					ERP020W-0350-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	14.7	31.5	39	42
					ESM020W-0350-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
ESS015W-0350-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42					
1204@250mA	250	33.6	36.2	39.9	EBR010U-0250-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
					EBR010E-0250-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	250	10.5	30	37.8	42
					ELP009U-0250-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	250	10.3	24	36.4	41
					ESS010W-0250-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	250	10.5	24	37.8	42
1204@280mA	280	33.6	36.2	39.9	ESM020W-0280-42	120-277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	280	11.8	24	37.8	42
1204@285mA	285	33.6	36.2	39.9	EBR015U-0285-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	285	12.0	30	37.8	42
1204@300mA	300	33.6	36.2	39.9	EBR015U-0300-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
					EBR015E-0300-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42
					ELP012U-0300-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	300	12.3	24	36.4	41
					ESS015W-0300-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	300	12.6	24	37.8	42
1204@350mA	350	33.6	36.2	39.9	EBR015U-0350-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
					EBR015E-0350-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42
					ERP020W-0350-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	14.7	31.5	39	42
					ESM020W-0350-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42
ESS015W-0350-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42					
1204@380mA	380	33.6	36.2	39.9	ELR018U-0380-42	120 Vac, 84% eff., Round Plastic Case	Forward/Reverse Phase	10-100%	380	16.0	24	37	42
1204@400mA	400	33.6	36.2	39.9	EBR020U-0400-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
					ESS020W-0400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	18.9	24	37.8	42
					EBR020E-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42
1204@450mA	450	33.6	36.2	39.9	ELP018U-0450-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	450	18.5	24	36.4	41
					ERP020W-0450-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42
					ESS020W-0450-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42
1204@460mA	460	33.6	36.2	39.9	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42



CLL020/CLL022



CITIZEN ELECTRONICS CO. – ERP Cross Reference

Citizen LED SPECIFICATION					ERP LED DRIVER SPECIFICATION									
Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)	
CLL030/CLL032														
1205: 300mA (nom), 600mA (max) / 1206: 360mA (nom), 720mA (max) / 1208: 480mA (nom), 960mA (max) / 1212: 720mA (nom), 1440mA (max)														
1205@300mA	300	33.6	36.2	39.9	EBR015U-0300-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42	
					EBR015E-0300-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	300	12.6	30	37.8	42	
					ELP012U-0300-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	300	12.3	24	36.4	41	
					ESS015W-0300-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	300	12.6	24	37.8	42	
1205@350mA	350	33.6	36.2	39.9	EBR015U-0350-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42	
					EBR015E-0350-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	350	14.7	30	37.8	42	
					ERP020W-0350-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	350	14.7	31.5	39	42	
					ESM020W-0350-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42	
					ESS015W-0350-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	350	14.7	24	37.8	42	
1205@380mA	380	33.6	36.2	39.9	ELR018U-0380-42	120 Vac, 84% eff., Round Plastic Case	Forward/Reverse Phase	10-100%	380	16.0	24	37	42	
1205@400mA	400	33.6	36.2	39.9	EBR020U-0400-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42	
					ESS020W-0400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	18.9	24	37.8	42	
					EBR020E-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42	
1205@450mA	450	33.6	36.2	39.9	ELP018U-0450-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	450	18.5	24	36.4	41	
					ERP020W-0450-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42	
					ESS020W-0450-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42	
1205@460mA	460	33.6	36.2	39.9	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42	
1205@500mA	500	33.6	36.2	39.9	EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42	
					EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42	
					ESM030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42	
					ESS030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42	
1205@550mA	550	33.6	36.2	39.9	ERP030W-0550-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	550	23.1	31.5	39	42	
					ESM030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42	
					ESS030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42	
1206@380mA	380	33.6	36.2	39.9	ELR018U-0380-42	120 Vac, 84% eff., Round Plastic Case	Forward/Reverse Phase	10-100%	380	16.0	24	37	42	
1206@400mA	400	33.6	36.2	39.9	EBR020U-0400-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42	
					ESS020W-0400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	400	18.9	24	37.8	42	
					EBR020E-0400-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	400	16.8	30	37.8	42	
1206@450mA	450	33.6	36.2	39.9	ELP018U-0450-41	120 Vac, 80% eff., Rectangular Plastic Case	Forward/Reverse Phase	10-100%	450	18.5	24	36.4	41	
					ERP020W-0450-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	450	18.9	31.5	39	42	
					ESS020W-0450-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	450	18.9	24	37.8	42	
1206@460mA	460	33.6	36.2	39.9	EBR020U-0460-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	460	19.3	30	37.8	42	
1206@500mA	500	33.6	36.2	39.9	EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42	
					EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42	
					ESM030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42	
					ESS030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42	
1206@550mA	550	33.6	36.2	39.9	ERP030W-0550-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	550	23.1	31.5	39	42	
					ESM030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42	
					ESS030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42	
1206@620mA	620	33.6	36.2	39.9	ESS030W-0620-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	620	26.0	24	37.8	42	
1206@700mA	700	33.6	36.2	39.9	ERP030W-0700-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	29.4	31.5	39	42	
					ESM030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42	
					ESS030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42	



CLL030
CLL032

CITIZEN ELECTRONICS CO. – ERP Cross Reference

Citizen LED SPECIFICATION					ERP LED DRIVER SPECIFICATION									
Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)	
CLL030/CLL032														
1205: 300mA (nom), 600mA (max) / 1206: 360mA (nom), 720mA (max) / 1208: 480mA (nom), 960mA (max) / 1212: 720mA (nom), 1440mA (max)														
1208@500mA	500	33.6	36.2	39.9	EBR020U-0500-42	120 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42	
					EBR020E-0500-42	220/230/240 Vac, 87% eff., Round Plastic Case	Forward/Reverse Phase	1-100%	500	21.0	30	37.8	42	
					ESM030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42	
					ESS030W-0500-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	500	21.0	24	37.8	42	
1208@550mA	550	33.6	36.2	39.9	ERP030W-0550-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	550	23.1	31.5	39	42	
					ESM030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42	
					ESS030W-0550-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	550	23.1	24	37.8	42	
1208@620mA	620	33.6	36.2	39.9	ESS030W-0620-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	620	26.0	24	37.8	42	
1208@700mA	700	33.6	36.2	39.9	ERP030W-0700-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	700	29.4	31.5	39	42	
					ESM030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42	
					ESS030W-0700-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	700	29.4	24	37.8	42	
1208@800mA	800	33.6	36.2	39.9	ERP040W-0800-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	800	33.6	31.5	39	42	
					ESM040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42	
					ESP040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42	
1208@850mA	850	33.6	36.2	39.9	ERP040W-0850-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	850	35.7	31.5	39	42	
					ESM040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42	
					ESP040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42	
1208@900mA	900	33.6	36.2	39.9	ERP040W-0900-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	37.8	31.5	39	42	
					ESM040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42	
					ESP040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42	
1212@800mA	800	33.6	36.2	39.9	ERP040W-0800-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	800	33.6	31.5	39	42	
					ESM040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42	
					ESP040W-0800-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	800	33.6	24	37.8	42	
1212@850mA	850	33.6	36.2	39.9	ERP040W-0850-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	850	35.7	31.5	39	42	
					ESM040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42	
					ESP040W-0850-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	850	35.7	24	37.8	42	
1212@900mA	900	33.6	36.2	39.9	ERP040W-0900-42	120 to 277 Vac, 90% eff., Rectangular Plastic Case	0-10V	10-100%	900	37.8	31.5	39	42	
					ESM040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42	
					ESP040W-0900-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	900	37.8	24	37.8	42	
1212@1000mA	1000	31.9	34.7	37.4	ELM050W-1000-48	120 & 277 Vac, 84% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	10-100%	1000	48.0	24	43.2	48	
1212@1050mA	1050	33.6	36.2	39.9	ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42	
					ESM050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42	
					ESP050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42	
1212@1200mA	1200	33.6	36.2	39.9	ERM050W-1200-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1200	50.4	32	37.8	42	
					ESM050W-1200-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42	
					ESP050W-1200-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42	
1212@1400mA	1400	33.6	36.2	39.9	ERM060W-1400-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1400	58.8	32	37.8	42	
					ESP060W-1400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	24	37.8	42	
					EVM060W-1400-42-COB	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	30	37.8	42	



CLL030
CLL032



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CITIZEN ELECTRONICS CO. – ERP Cross Reference

Citizen LED SPECIFICATION					ERP LED DRIVER SPECIFICATION								
Citizen Product Name	Forward Current (mA)	Min Vf (Vdc)	Typical Vf (Vdc)	Max Vf (Vdc)	ERP LED Driver Part Numbers		Dimming Type	Dimming Range	Iout (mA)	Pout max (W)	Vout Min (Vdc)	Vout Nom (Vdc)	Vout Max (Vdc)
CLL040/CLL042													
1218: 1080mA (nom), 2160mA (max)													
1218@1050mA	1050	33.6	36.2	39.9	ERM050W-1050-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1050	44.1	32	37.8	42
					ESM050W-1050-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
					ESPO50W-1050-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1050	44.1	24	37.8	42
1218@1200mA	1200	33.6	36.2	39.9	ERM050W-1200-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1200	50.4	32	37.8	42
					ESM050W-1200-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42
					ESPO50W-1200-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1200	50.4	24	37.8	42
1218@1400mA	1400	33.6	36.2	39.9	ERM060W-1400-42	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1400	58.8	32	37.8	42
					ESPO60W-1400-42	120 to 277 Vac, 87% eff., Rectangular Plastic Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	24	37.8	42
					EVM060W-1400-42-COB	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1400	58.8	30	37.8	42
1218@1600mA	1600	33.6	36.2	39.9	ERM060W-1600-42	120 & 277 Vac, 90% eff., Rectangular Metal case	0-10V	10-100%	1600	67.2	32	37.8	42
1218@1750mA	1750	33.6	36.2	39.9	ERM060W-1750-40	120 & 277 Vac, 90% eff., Rectangular Metal Case	0-10V	10-100%	1750	70.0	30	36	40
1218@1800mA	1800	33.6	36.2	39.9	EVB080W-1800S-42	120 to 277 Vac, 87% eff., Ballast Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1800	75.6	30	37.8	42
1218@1900mA	1900	33.6	36.2	39.9	EVM080W-1900-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	1900	79.8	30	37.8	42
1218@2000mA	2000	33.6	36.2	39.9	EVM090W-2000-42	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	2000	84.0	30	37.8	42
1218@2100mA	2100	33.6	36.2	39.9	EVM100W-2100-45	120 to 277 Vac, 87% eff., Rectangular Metal Case	Forward/Reverse Phase & 0-10V	1-100%	2100	94.5	32	40.5	45



CLL040
CLL042