

Expected load profile

240V

AC loads

Example Load Sheet

Appliance	Qty	Power	Winter		Summer		p.f.	contribut. to ave. demand	contribut. to 1/2 hr. demand	surge factor	contribut. to surge demand	contribut. to ave. demand	contribut. to 1/2 hr. demand	surge factor	contribut. to surge demand
			usage time	watt hrs	usage time	watt hrs									
Morning loads															
Evening loads															
<i>Kitchen</i>															
Rm light, LED Down lights	4	18	5 hrs/day	360	2 hrs/day	144	0.9					80	80	1	80
bench lights, LED	3	12	5 hrs/day	180	2 hrs/day	72	0.9	40				40	40	1	40
Toaster	1	1800	5 mins/day	150	5 mins/day	150	1.0		1800		1800				
Jug / kettle	1	1800	10 mins/day	300	10 mins/day	300	1.0		1800		1800		1800	1	1800
Blender, Mix master	1	1200	2 mins/day	40	2 mins/day	40	0.9	1333	1333	1	1333	1333	1333	5	6667
Cook top, gas. Starters only	1	3	24 hrs/day	72	24 hrs/day	72	1.0	3	3	1	3	3	3	1	3
Oven, electric.	0	3000	0 hrs/day	0	2 hrs/day	0	0.9	0	0	1	0	0	0	0	0
Grill, gas	1	0	2 hrs/week	0	2 hrs/week	0	0.9	0	0	1	0	0	0	8	0
Grill, electric	0	2400	2 hrs/week	0	2 hrs/week	0	0.9	0	0	1	0	0	0	9	0
Microwave oven	1	1200	10 mins/day	200	10 mins/day	200	0.9						1333	3	1667
Dishwasher	1	200	54 mins/day	180	54 mins/day	180	0.9								
Fridge / freezer, 318kWrS / year	1	90	8 hrs/day	720	12 hrs/day	1080	0.8	113	113	5	563	113	113	5	563
Freezer, chest etc	0	90	8 hrs/day	0	12 hrs/day	0	0.8	0	0	5	0	0	0	5	0
Range hood	1	80	1 hrs/day	80	1 hrs/day	80	0.9	89	89			89	89	1	89
Water UV filter	0	14	24 hrs/day	0	24 hrs/day	0	0.8	0	0	1	0				
<i>Lounge / Dinning Rm</i>															
Air con unit, small inverter.	1	1000	0 hrs/day	0	4 hrs/day	4000	0.9					1111	1111	1	1111
Rm lights, LED down lights	6	12	5 hrs/day	360	2 hrs/day	144	0.9					80	80	1	80
Reading Lamps, LED	1	9	3 hrs/day	27	1 hrs/day	9	0.9					10	10	1	10
TV, 100cm LED	1	190	4 hrs/day	760	3 hrs/day	570	0.8	238	238	1	238	238	238	1	238
Stereo, radio / CD	1	18	2 hrs/day	36	2 hrs/day	36	0.8					23	23	1	23
Ceiling Fan	1	45	0 hrs/day	0	2 hrs/day	90	0.8					56	56	1	56
<i>Bed rm, 1</i>															
Rm light, LED	2	12	0.5 hrs/day	12	0.5 hrs/day	12	0.9	27	27	1	27	27	27	1	27
Reading lamps, LED	2	12	1 hrs/day	24	1 hrs/day	24	0.9					27	27	1	27
Ceiling Fan	1	20	0 hrs/week	0	2 hrs/week	6	0.9					22	22	1	22
<i>Bed rm, 2</i>															
Rm light, LED	1	12	0.5 hrs/day	6	0.5 hrs/day	6	0.9					13	13	1	13
Reading lamps, LED	1	12	0.5 hrs/day	6	0.5 hrs/day	6	0.9					13	13	1	13
Ceiling Fan	0	20	0 hrs/week	0	2 hrs/week	0	0.9					0	0	1	0
<i>Bed rm, 3</i>															
Rm light, LED	1	12	0.5 hrs/day	6	0.5 hrs/day	6	0.9					13	13	1	13
Reading lamps, LED	1	12	0.5 hrs/day	6	0.5 hrs/day	6	0.9					13	13	1	13
Ceiling Fan	0	20	0 hrs/week	0	2 hrs/week	0	0.9					0	0	1	0
<i>Bed rm, 4</i>															
Rm light, LED	0	12	0.5 hrs/day	0	0.5 hrs/day	0	0.9					0	0	1	0
Reading lamps, LED	0	12	0.5 hrs/day	0	0.5 hrs/day	0	0.9					0	0	1	0
Ceiling Fan	0	20	0 hrs/week	0	2 hrs/week	0	0.9					0	0	1	0

<i>Office</i>																
Rm light, LED	2	12	0.5 hrs/day	12	0.5 hrs/day	12	0.9						27	27	1	27
Reading lanps, LED	1	12	0.5 hrs/day	6	0.5 hrs/day	6	0.9						13	13	1	13
Ceiling Fan	1	20	0 hrs/week	0	2 hrs/week	6	0.9						22	22	1	22
Computer, Lap top	2	90	2 hrs/day	360	2 hrs/day	360	0.8	225	225	3	675		225	225	3	675
Modem / Router	1	20	1 hrs/day	20	1 hrs/day	20	0.8	25	25	2	50					
Printer, ink jet	1	30	0.5 hrs/day	15	0.5 hrs/day	15	0.8	38	38	1	38					
<i>Bath rm / Laundry</i>																
Rm light, LED	1	12	1 hrs/day	12	1 hrs/day	12	0.9	13	13	1	13		13	13	1	13
Vanity light	1	12	0.5 hrs/day	6	0.5 hrs/day	6	0.9	13	13	1	13		13	13	1	13
Exhaust fan	1	40	1 hrs/day	40	1 hrs/day	40	0.9	44	44	1	44		44	44	1	44
Washing machine, top loader	1	205	65 mins/day	222	65 mins/day	222	0.8									
Washing machine, front loader	0	350	75 mins/day	0	75 mins/day	0	0.8	0	0	5	0					
<i>Other appliances</i>																
External house light, LED flood	4	12	1 hrs/day	48	0.5 hrs/day	24	0.9						53	53	1	53
Garage lights, LED strip	4	36	5 mins/day	12	5 mins/day	12	0.8	180	180	1	180					
House presure pump	1	550	20 mins/day	183	20 mins/day	183	0.9						611	611	1	611
Shed presure pump	1	450	20 mins/day	150	20 mins/day	150	0.9						500	500	1	500
			hrs/day		hrs/day											
			hrs/day		hrs/day											
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			hrs/day		hrs/day											

Total AC kW hrs used per day	Winter	4.611	Summer	8.301	2.381	5.941	6.777	4.827	7.960	14.527
	kWhrs per day		kWhrs per day		ave	1/2 hr	Surge	ave	1/2 hr	Surge