Notification Appliance Current Draw Chart

This Notification Appliance Current Draw Chart lists the amount of current drawn by each DMP notification appliance. The current draw varies with the different candela settings, decibel settings, and input voltage settings of each appliance.

The following tables are available to assist you when calculating standby battery calculations and other panel current draw calculations.

Note: The current draw amounts listed here are subject to change. Please refer to the literature included with the notification appliance or www.wheelockinc.com.

Product	Wheelock Model #	Ave.	Peak
921-MCW	RSS-24MCW-F		
15cd		49mA	110mA
30cd		85mA	149mA
75cd		137mA	260mA
110cd		180mA	334mA
922-MCW	RSSP-24MCW-F		
15cd		49mA	110mA
30cd		85mA	149mA
75cd		137mA	260mA
110cd		180mA	334mA
923-MCW	NS-24MCW-F		
95 dBA 15cd		75mA	130mA
95 dBA 30cd		98mA	175mA
95 dBA 75cd		161mA	275mA
95 dBA 110cd		192mA	330mA
90 dBA 15cd		61mA	130mA
90 dBA 30cd		86mA	175mA
90 dBA 75cd		147mA	275mA
90 dBA 110cd		183mA	330mA
924-MCW	AS-24MCW-F		
99 dBA 15cd		93mA	143mA
99 dBA 30cd		126mA	180mA
99 dBA 75cd		183mA	260mA
99 dBA 110cd		236mA	334mA
95 dBA 15cd		72mA	143mA
95 dBA 30cd		110mA	180mA
95 dBA 75cd		165mA	260mA
95 dBA 110cd		218mA	334mA
90 dBA 15cd		63mA	143mA
90 dBA 30cd		95mA	180mA
90 dBA 75cd		149mA	260mA
90 dBA 110cd		210mA	334mA

Table 1: 920 Series Multi-Candela Strobes

Product	Wheelock Model #	Ave.	Peak
801 Mini Horn	MIZ-12	8mA	10mA
806 6 in Bell	MB-G6-12	60mA	90mA
821 15/75 Candela Strobe	RSS-121575W-F	169mA	465mA
822 Retrofit Strobe	RSSP-121575W-F	169mA	465mA

Table 2: 12 Volt Appliances

Product	Wheelock Model #	Ave.	Peak
901 Mini Horn	MIZ-24	12mA	22mA
904 Horn	AH-24-R		
99 dBA		41mA	
95 dBA		24mA	
90 dBA		17mA	
904-WP Weather-proof Horn	AH-24WP-R		
99 dBA		41mA	
95 dBA		24mA	
90 dBA		17mA	
906-6 6" Bell	MB-G6-24-R	30mA	40mA
906-10 10" Bell	MB-G10-24R	30mA	40mA

Table 3: 24 Volt Appliances

Product	Wheelock Model #	Ave.	Peak
802 Multi-tone Horn	MT-12/24		
802 @ 12 V			
Horn		20mA	100mA
Bell		10mA	31mA
March Time Horn		20mA	100mA
Code-3 Horn		20mA	100mA
Code-3 Tone		15mA	60mA
Slow Woop		25mA	100mA
Siren		20mA	82mA
HI/LO		12mA	44mA
802 @ 24 V			
Horn		23mA	40mA
Bell		12mA	14mA
March Time Horn		23mA	40mA
Code-3 Horn		23mA	40mA
Code-3 Tone		17mA	28mA
Slow Woop		26mA	48mA
Siren		23mA	36mA
HI/LO		14mA	20mA
803 Standard Horn	NH-12/24		
803 @ 12 V			
95 dBA		15mA	19mA
90 dBA		9mA	15mA
803 @ 24 V			
95 dBA		22mA	28mA
90 dBA		15mA	22mA

Table 4: Selectable 12/24 Volt Horns

Standby Battery Power Calculations

The following calculation defines the total number of Amp-hours required. From this calculation, assemble the appropriate number of batteries that will just exceed the calculated total Amp-hour requirement.

1. Add all standby current values.
2. Multiply the total standby current by the number of standby hours needed.
3. Add all alarm current values and multiply by 0.25.
4. Add the total alarm mA-hour with the total standby mA-hour and then multiply this number by .001.

1.	Total standby current	=	_____	mA
	Number of standby hour required	X	_____	hr
2.	Total standby (mA.hr required)	=	_____	mA-hr
3.	Total alarm current	=	_____	mA
	Total alarm current X .25	=	_____	mA-hr
	(.25 = 5 minute alarm)			
	Total standby (required)	+	_____	mA-hr
	Total	=	_____	mA-hr
		X	.001	
4.	Total required Amp-hrs	=	_____	

Products	Wheelock Model #	Average		Peak	
		Strobe	Audible	Strobe	Audible
831 Single Sync @12 V	SM-12/24-R	17mA	4mA	60mA	4mA
831 Single Sync @ 24 V		28mA	8mA	70mA	8mA
832 Dual Sync @12 V	DSM-12/24-R	20mA	4mA	64mA	4mA
832 Dual Sync @24 V		35mA	8mA	80mA	8mA

Table 5: Selectable 12/24 Volt Sync Modules

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