

Grandstream Networks, Inc.

GAC2500 Audio Conference Phone for Android™

Technical Bulletin - Power Consumption



DOCUMENT PURPOSE

This document is a technical bulletin describing power consumption details for GAC2500.

GAC2500 can be powered using Universal power supply:
 Input AC 100-240V 50/60Hz; Output 12VDC, 2A (24W)

TEST CONDITION TERMINOLOGY

The following test condition terminology was used in table 1.

- **Idle State**
 - The system has completed the boot-up process.
 - The system is set with default factory settings without any change.
 - No devices connected to auxiliary ports.
- **Work State**
 - The system was setup as described in the Idle State.
 - The system established 2 IP calls via WAN port. Bluetooth connected to other device and volume level set to maximum.
- **Power Not Exceed**
 - The system established 6 IP calls via WAN port. Bluetooth connected to other device and volume level set to maximum.
 - Other Peripherals and settings as Work State condition.
 - Capacitive touch screen operated during test.

1. Power Dissipation

Table 1: Power Dissipation and Advertisement

Product	Power Adapter (12VDC)			PoE (48VDC)			Class Advertisement (IEEE 802.3at)
	Idle State	Work State	Max Power Consumption	Idle State	Work State	Max Power Consumption	
GAC2500	3.494W	4.307W	9.305W	4.390W	5.210W	11.136W	4



2. PD Power Classification

Table 2: PD Power Classification (IEEE 802.3af)

Class	Usage	Max Power Range used by the PD (phone)
0	Default	0.44 to 12.95W
1	Optional	0.44 to 3.84W
2	Optional	3.84 to 6.49W
3	Optional	6.49 to 12.95W
4	Not Allowed	Reserved for future use (for example: IEEE802.3at)

Table 3: PD Power Classification (IEEE 802.3at)

Class	Usage	Max Power Range used by the PD (phone)
0	Default	0.44 to 12.95W
1	Optional	0.44 to 3.84W
2	Optional	3.84 to 6.49W
3	Optional	6.49 to 12.95W
4	Optional	12.95 to 25.5W

