

Grandstream Networks, Inc.

DP750 Technical Bulletin

Power Consumption







DOCUMENT PURPOSE

This document is a technical bulletin describing power consumption details for DP750 base station.

DP750 base station can be powered via one of the following:

- Universal power supply (input AC 100-240V 50/60Hz; output 5VDC, 1A);
- Micro-USB connection;
- PoE: IEEE802.3af Class 1, 0.44W-3.84W.

TEST CONDITION TERMINOLOGY

The following test condition terminology was used in table 1.

Idle State

- The base has boot-up, and with one registered handset in idle state.
- Connect to the LAN network.

Work State

- The base running IP call with one handset registered.
- The handset set the maximum volume during the IP call.

Power Not Exceed

- 5 handsets are registered to the base, and 4 handsets were running four lines IP call at same time.
- The handsets set the maximum volume during IP call.





1. Power Dissipation

Table 1: Power Dissipation and Advertisement

Product	Power Adapter (5.12VDC)			PoE (46.9VDC)			Class Advertisement
	Idle State	Work State	Power Not to Exceed	Idle State	Work State	Power Not to Exceed	(IEEE 802.3af)
DP750	0.791W	0.897W	1.147W	1.308W	1.448W	1.815W	1

2. PD Power Classification

Table 2: PD Power Classification (IEEE 802.3af)

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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: IEEE802.3AF)				

