Desktop Power Supply

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VIEW IN BROWSER

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Summary

A desktop power supply using the Riden RK6006

Hobby & Makers > Electronics

Tags: supply power powersupply riden rk6006

Compact power supply for desktop use.

Notes:

- Required: Use a USB-C adapter/powerbank that can supply 12V minimum
- Recommended : Set the ZY12PDN USB-C board to use the maximum voltage (purple led indication)
- Required: Configure power setting of the RK6006 according to the power source used
- Recommended: Order the bluetooth version of the RK6006 as this includes a temperature sensor
- Required: Use supports for all parts except the dps_clip and dps_tool.

Printed Parts:

Pcs	Part	Description

1	dps_case or dps_case_air	Main body. Use air version if extra airflow is required. For low power applications (< 50W) this should not be necessary.
1	dps_front or dps_front_switch	Housing for the banana socket and a switch for the switch version. 2 M3 inserts are needed for this part
1	dps_back	Housing for the ZY12PDN USB-C board. 2 M3 inserts are needed for this part. The dps_clip is used to keep the board in place.
1	dps_clip	Use M2 screw to mount to dps_back
1	dps_gridfinity	Base to store power supply

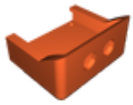
Other Parts:

Pcs	Part	Order
1	RidenRK6006	Link
1	ZY12PDN USB-C board including header	Link
1	Banana sockets set	Link
4	M3 insert	
4	M3x10mm flat head screw	
2	M2x6mm socket head screw	
4	Wire and ferrules (10 cm)	

Model files

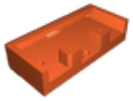
dps_case.stl

dps_case



dps_front.stl

dps_front



dps_back.stl

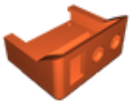
dps_back

dps_clip.stl

dps_clip

dps_tool.stl

dps_tool



dps_front_switch.stl

dps_front_switch

dps_case_air.stl

dps_case_air

dps_gridfinity.stl

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