



ONU Power Options

15W BBU PS and WT-12V-* Series Power Units

The 15W BBU PS Series Power Supply with Battery Backup unit (BBU) provides +12VDC power for Motorola RF-over-Glass (RfOG) ONUs. Complete with battery backup and alarms, they are suitable for applications such as lifeline voice services or critical security networks, when maintaining service during AC power outages is vital. These power systems are temperature-hardened for outdoor or indoor applications.

The WT-12V-* Series 12VDC Power Supply plugs directly into an AC outlet to power a Motorola RfOG ONU over coaxial cable wiring.

Features and Benefits

- In-home power over 75 Ω coax cabling
- Autosensing input for 110 or 230 VAC applications (BBU model)
- All power options utilize power inserter, shipped with each RfOG ONU
- RoHS compliant
- WT-12V-220-EU-B includes plug adapters for Type F, Type G, Type I, and Type B wall outlets
- BBU input power cables are available for most countries

Data Sheet

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Specifications

	WT-12V-110-NEMA1-F	WT-12V-220-EU-B	15W-BBU-PS
AC Input			
Input Voltage Range	100 – 130 VAC	90 – 264 VAC	90 – 264 VAC
Input Frequency Range	60 Hz	47 – 63 Hz	47 – 70 Hz
DC Output			
Output Voltage	12 VDC Nominal	12 VDC Nominal	13.5 VDC ± 3% @ 25°C — AC mode 12.0 VDC Nominal - Battery backup mode
Output power (continuous)	6 W	10 W	15 W (max.)
Efficiency (@75% max. load)	60% (min.) at full load	75% Typical at full load	≤ 77% @ +25°C and full load (with full battery capacity) — AC mode ≤ 88% @ +25°C and full load — Battery backup mode*
Battery			
Battery Type	N/A	N/A	Sealed, Maintenance-free Lead-Acid Battery
Battery Capacity	N/A	N/A	4.5 Ah
Typical recharge time	N/A	N/A	≤ 24 hrs to recover 85% of rated capacity (at normal input voltage)
Charge Current	N/A	N/A	0.70 Amps (max.)
Physical			
Dimensions	2.9 in x 2 in x 1.6 in (74mm x 51mm x 41mm)	2.6 in x 1.7 in x 1.1 in (65mm x 42.6mm x 27.5mm)	7.3 in x 4.4 in x 3.3 in (185.3mm x 112.6mm x 85mm)
Weight	3.5 oz. / 1000 g	0.5 lb / 227 g	1.0 lb / 0.45 kg (without battery) 4.6 lb / 2.1 kg (with 12V/4.5Ah battery)*
Environment			
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)	32 °F to 104 °F (0 °C to 40 °C)	+23°F to +113°F (-5°C to +45°C)
Operating Humidity	0% – 90% R.H.	5% – 90% R.H.	0% – 90% R.H.
Maximum Operating Elevation	10,000 ft / 3,000 m		
Maximum Storage Temperature	-4°F to +185°F (-20°C to +85°C)	-4°F to +185°F (-20°C to +85°C)	-13°F to +131°F (-25°C to +55°C) without battery +23°F to +122°F (-5°C to +50°C) with 12V/4.5Ah battery

Ordering Information

Model Name	Description
WT-12V-110-NEMA1-F	ONU Wall Transformer, 12VDC Output, COAX feed, 110VAC Input, NEMA 1-U.S. Style wall plug
WT-12V-220-EU-B	ONU Wall Transformer, 12VDC Output, Bayonet style connector, 220VAC Input, European Style wall plug
15W BBU PS	UPS, 12VDC Output, 90-264VAC Input, No output cable, No AC power cord, No battery
ONU-CBL-UPS-F	UPS output cable, DIN to F (coax), 2 meters long (for 15W BBU PS)
ONU-CBL-UPS-B	UPS output cable, DIN to Bayonet, 2 meters long (for 15W BBU PS)
ONU-PC-TYP-B	AC Power Cord for UPS, Type B for North America, Central America, Brazil, Columbia, Ecuador, Venezuela, Taiwan, and Japan
ONU-PC-TYP-E	AC Power Cord for UPS, Type E for France, Belgium, Poland, Czech Republic, Slovakia, and some countries in Africa
ONU-PC-TYP-F	AC Power Cord for UPS, Type F "Schuko" for Germany, Austria, Chile, Greece, Iceland, Spain, Portugal, Netherlands, and other European countries
ONU-PC-TYP-G	AC Power Cord for UPS, Type G for United Kingdom, Malaysia, China, Ireland, Singapore, Indonesia, Hong Kong, and some countries in Africa
ONU-PC-TYP-I	AC Power Cord for UPS, Type I for Australia, New Zealand, Argentina, and China
ONU-PC-TYP-J	AC Power Cord for UPS, Type J for Switzerland & Liechtenstein
Related Products	
ONU-PI-F	Power inserter for ONU, F Connector
ONU-PI-B	Power inserter for ONU, Bayonet style connector



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Motorola, Inc., 101 Tournament Drive, Horsham, Pennsylvania 19044 U.S.A. www.motorola.com

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