

# What is jammer , phone jammer device on this day in history

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Permanent Link to Update: GNSS Accuracy: Lies, Damn Lies, and Statistics  
2021/05/25

By Frank van Diggelen, Global Locate, Inc. This update to a frequently requested article first published here in 1998 explains how statistical methods can create many different position accuracy measures. As the driving forces of positioning and navigation change from survey and precision guidance to location-based services, E911, and so on, some accuracy measures have fallen out of common usage, while others have blossomed. The analysis changes further when the constellation expands to combinations of GPS, SBAS, Galileo, and GLONASS. Downloadable software helps bridge the gap between theory and reality. “There are three kinds of lies: lies, damn lies, and statistics.” So reportedly said Benjamin Disraeli, prime minister of Britain from 1874 to 1880. Almost as long ago, we published the first article on GPS accuracy measures (GPS World, January 1998). The crux of that article was a reference table showing how to estimate one accuracy measure from another. The original article showed how to derive a table like TABLE 1. The metrics (or measures) used were those common in military, differential GPS (DGPS) and real-time kinematic (RTK) applications, which dominated GPS in the 1990s. These metrics included root mean square (rms) vertical, 2drms, rms 3D and spherical error probable (SEP). The article showed examples from DGPS data. Table 1. Accuracy measures for circular, Gaussian, error distributions. Figure 1. Using Table 1. Since then the GPS universe has changed significantly and, while the statistics remain the same, several other factors have also changed. Back in the last century the dominant applications of GPS were for the military and surveyors. Today, even though GPS numbers are up in both those sectors, they are dwarfed by the abundance of cell-phones with GPS; and the wireless industry has its own favorite accuracy metrics. Also, Selective Availability was active back in 1998, now it is gone. And finally we have the prospect of a 60+ satellite constellation, as we fully expect in the next nine years that 30 Galileo satellites will join the GPS and satellite-based augmentation systems (SBAS) satellites already in orbit. Therefore, we take an updated look at GNSS accuracy. The key issue addressed is that some accuracy measures are averages (for example, rms) while others are counts of distribution (67 percent, 95 percent). How these relate to each other is less obvious than one might think, since GNSS positions exist in three

dimensions, not one. Some relationships that you may have learned in college (for example, 68 percent of a Gaussian distribution lies within  $\pm$  one sigma) are true only for one dimensional distributions. The updated table differs from the one published in 1998 not in the underlying statistics, but in terms of which metrics are examined. Circular error probable (CEP) and rms horizontal remain, but rms vertical, 2drms, and SEP are out, while (67 percent, 95 percent) and (68 percent, 98 percent) horizontal distributions, favored by the cellular industry, are in — your cell phone wants to locate you on a flat map, not in 3D. Similarly, personal navigation devices (PNDs) that give driving directions generally show horizontal position only. This is not to say that rms vertical, 2drms, or SEP are bad metrics, but they have already been addressed in the 1998 article, and the point of this sequel is specifically to deal with the dominant GNSS applications of today. Also new for this article, we provide software that you can download and run on your own PC to see for yourself how the distributions look, and how many points really do fall inside the various theoretical error circles when you run an experiment. Table 1 is the central feature of this article. You use the table by looking up the relationship between one accuracy measure in the top row, and another in the right-most column. For example (see FIGURE 1), let's take the simplest entry in the table:  $rms2 = 1.41 \times rms1$  TABLE 2 defines the accuracy measures used in this article. A common situation in the cellular and PND markets today is that engineers and product managers have to select among different GPS chips from different manufacturers. (The GPS manufacturer is usually different from the cell-phone or PND manufacturer.) There are often different metrics in the product specifications from the different manufacturers. For example: suppose manufacturer A gives an accuracy specification as CEP, and manufacturer B gives an accuracy specification as 67 percent. How do you compare them? The answer is to use Table 1 to convert to a common metric. Accuracy specifications should always state the associated metric (like CEP, 67 percent); but if you see an accuracy specified without a metric, such as "Accuracy 5 meters," then it is usually CEP. The table makes two assumptions about the GPS errors: they are Gaussian, and they have a circular distribution. Let's discuss both these assumptions. Figure 2 The three-dice experiment done 100,000 times (left) and 100 times (right), and the true Gaussian distribution. Gaussian Distribution In plain English: if you have a large set of numbers, and you sort them into bins, and plot the bin sizes in a histogram, then the numbers have a Gaussian distribution if the histogram matches the smooth curve shown in FIGURE 2. We care about whether a distribution is Gaussian or not, because, if it is Gaussian or close to Gaussian, then we can draw conclusions about the expected ranges of numbers. In other words, we can create Table 1. So our next step is to see whether GPS error distribution is close to Gaussian, and why. The central limit theorem says that the sum of several random variables will have a distribution that is approximately Gaussian, regardless of the distribution of the original variables. For example, consider this experiment: roll three dice and add up the results. Repeat this experiment many times. Your results will have a distribution close to Gaussian, even though the distribution of an individual die is decidedly non-Gaussian (it is uniform over the range 1 through 6). In fact, uniform distributions sum up to Gaussian very quickly. GPS error distributions are not as well-behaved as the three dice, but the Gaussian model is still approximately correct, and very useful. There are several random variables that make up the error in a GPS position,

including errors from multipath, ionosphere, troposphere, thermal noise and others. Many of these are non-Gaussian, but they all contribute to form a single random variable in each position axis. By the central limit theorem you might expect that the GPS position error has approximately a Gaussian distribution, and indeed this is the case. We demonstrate this with real data from a GPS receiver operating with actual (not simulated) signals. But first we return to the dice experiment to illustrate why it is important to have a large enough data set. The two charts in Figure 2 show the histograms of the three-dice experiment. On the left we repeated the experiment 100,000 times. On the right we used just the first 100 repetitions. Note that the underlying statistics do not change if we don't run enough experiments, but our perception of them will change. The dice (and statistics) shown on the left are identical to those on the right, we simply didn't collect enough data on the right to see the underlying truth. FIGURE 3 shows a GPS error distribution. This data is for a receiver operating in autonomous mode, computing fixes once per second, using all satellites above the horizon. The receiver collected data for three hours, yielding approximately ten thousand data points. Figure 3. Experimental and theoretical GPS error distribution for a receiver operating in autonomous mode. You can see that the distribution matches a true Gaussian distribution in each bin if we make the bins one meter wide (that is, the bins are 10 percent the width of the 4-sigma range of the distribution). Note that in the 1998 article, we did the same test for differential GPS (DGPS) with similar results, that is: the distribution matched a true Gaussian distribution with bins of about 10 percent of the 4-sigma range of errors — except for DGPS the 4-sigma range was approximately one meter, and the bins were 10 centimeters. Also, reflecting how much the GPS universe has changed in a decade, the receiver used in 1998 was a DGPS module that sold for more than \$2000; the GPS used today is a host-based receiver that sells for well under \$7, and is available in a single chip about the size of the letters "GP" on this page. Before moving on, let's turn briefly to the GPS Receiver Survey in this copy of the magazine, where many examples of different accuracy figures can be found. All manufacturers are asked to quote their receiver accuracy. Some give the associated metrics, and some do not. Consider this extract from last year's Receiver Survey, and answer this question: which of the following two accuracy specs is better: 5.1m horiz 95 percent, or 4m CEP? In Table 1 we see that  $CEP = 0.48 \times 95 \text{ percent}$ . So 5.1 meters 95 percent is the same as  $0.48 \times 5.1 \text{ m} = 2.4 \text{ meters CEP}$ , which is better than 4 meters CEP. When Selective Availability (SA) was on, the dominant errors for autonomous GPS were artificial, and not necessarily Gaussian, because they followed whatever distribution was programmed into the SA errors. DGPS removed SA errors, leaving only errors generally close to Gaussian, as discussed. Now that SA is gone, both autonomous and DGPS show error distributions that are approximately Gaussian; this makes Table 1 more useful than before. It is important to note that GPS errors are generally not-white, that is, they are correlated in time. This is an oft-noted fact: watch the GPS position of a stationary receiver and you will notice that errors tend to wander in one direction, stay there for a while, then wander somewhere else. Not-white does not imply not-Gaussian. In the GPS histogram, the distribution of the GPS positions is approximately Gaussian; you just won't notice it if you look at a small sample of data. Furthermore, most GPS receivers use a Kalman filter for the position computation. This leads to smoother, better, positions, but it also increases the correlation of the

errors with each other. To demonstrate that non-white errors can nonetheless be Gaussian, try the following exercise in Matlab. Generate a random sequence of numbers as follows:  $x = \text{zeros}(1, 1e5)$ ; for  $i = 2 : \text{length}(x)$ ,  $x(i) = 0.95 * x(i-1) + 0.05 * \text{randn}$ ; end The sequence  $x$  is clearly a correlated sequence, since each term depends 95 percent on the previous term. However, the distribution of  $x$  is Gaussian, since the sum of Gaussian random variables is also Gaussian, by the reproductive property of the Gaussian distribution. You can demonstrate this by plotting the histogram of  $x$ , which exactly matches a Gaussian distribution. In some data sets you may have persistent biases in the position. Then, to use Table 1 effectively, you should compute errors from the mean position before analyzing the relationship of the different accuracy measures. Distributions and HDOP Table 1 assumes a circular distribution. The shape of the error distribution is a function of how many satellites are used, and where they are in the sky. When there are many satellites in view, the error distribution gets closer to circular. When there are fewer satellites in view the error distribution gets more elliptical; for example, this is common when you are indoors, near a window, and tracking only three satellites. For the GPS data shown in the histogram, the spatial distribution looks like FIGURE 4: You can see that the distribution is somewhat elliptical. The rms North error is 2.1 meters, the rms East error is 1.2 meters. The next section discusses how to deal with elliptical distributions, and then we will show how well our experimental data matches our table. Figure 4. Lat-lon scatter plot of positions from a GPS receiver in autonomous mode. If the distribution really were circular then rms1 would be the same in all directions, and so rms East would be the same as rms North. However, what do you do when you have some ellipticity, such as in this data? The answer is to work with rms2 as the entry point to the table. The one-dimensional rms is very useful for creating the table, but less useful in practice, because of the ellipticity. Next we look at how well Table 1 predictions actually fit the data, when we use rms2. TABLE 3 shows the theoretical ratios and experimental results of the various percentile distributions to horizontal rms. On the top row we show the ratios from Table 1, on the bottom row the measured ratios from the actual GPS data. Table 3. Theoretical ratios and experimental results using actual GPS data. For our data: horizontal rms = rms2 = 2.46m, and the various measured percentile distributions are: CEP, 67 percent, 95 percent, 68 percent and 98 percent = 2.11, 2.62, 4.15, 2.65, and 4.74m respectively. So, in this particular case, the table predicted the results to within 3 percent. With larger ellipticity you can expect the table to give worse results. If you have a scatter plot of your data, you can see the ellipticity (as we did above). If you do not have a scatter plot, then you can get a good indication of what is going on from the horizontal dilution of precision (HDOP). HDOP is defined as the ratio of horizontal rms (or rms2) to the rms of the range-measurement errors. If HDOP doubles, your position accuracy will get twice as bad, and so on. Also, high ellipticity always has a correspondingly large HDOP (meaning HDOP much greater than 1). Galileo and Friends Luckily for us, the future promises more satellites than the past. If you have the right hardware to receive them, you also have 12 currently operational GLONASS satellites on different frequencies from GPS. Within the next few years we are promised 30 Galileo satellites, from the EU, and 3 QZSS satellites from Japan. All of these will transmit on the same L1 frequency as GPS. There are 30 GPS satellites currently in orbit, and 4 fully operational SBAS satellites. Thus in a few years we can

expect at least 60 satellites in the GNSS system available to most people. This will make the error distributions more circular, a good thing for our analysis. Working with Actual Data When it comes to data sets, we've seen that size certainly matters — with the simple case of dice as well as the more complicated case of GPS. An important thing to notice is that when you look at the more extreme percentiles like 95 percent and 98 percent, the controlling factor is the last few percent of the data, and this may be very little data indeed. Consider an example of 100 GPS fixes. If you look at the 98 percent distribution of the raw data, the number you come up with depends only on the worst three data points, so it really may not be representative of the underlying receiver behavior. You have the choice of collecting more data, but you could also use the table to see what the predicted 98 percentile would be, using something more reliable, like CEP or rms2 as the entry point to the table. Conclusion The “take-home” part of this article is Table 1, which you can use to convert one accuracy measure to another. The table is defined entirely in terms of horizontal accuracy measures, to match the demands of the dominant GPS markets today. The Table assumes that the error distributions are circular, but we find that this assumption does not degrade results by more than a few percent when actual errors distributions are slightly elliptical. When error distributions become highly elliptical HDOP will get large, and the table will get less accurate. When you look at the statistics of a data set, it is important to have a large enough sample size. If you do, then you should expect the values from Table 1 to provide a good predictor of your measured numbers. Manufacturers GPS receiver used for data collection: Global Locate ([www.globallocate.com](http://www.globallocate.com)) Hammerhead single-chip host-based GPS. FRANK VAN DIGGELLEN is executive vice president of technology and chief navigation officer at Global Locate, Inc. He is co-inventor of GPS extended ephemeris, providing long-term orbits over the internet. For this and other GPS inventions he holds more than 30 US patents. He has a Ph.D. E.E. from Cambridge University.

## what is jammer

Radioshack a20920n ac adapter 9v dc 200ma used -(+)- 2x5.5x10.3m.creative dv-9440 ac adapter 9v 400ma power supply.i've had the circuit below in my collection of electronics schematics for quite some time.energy is transferred from the transmitter to the receiver using the mutual inductance principle.hp compaq hstnn-la09 pa-1151-03hh ac adapter19v dc 7.89a new 5,the light intensity of the room is measured by the ldr sensor.frost fps-02 ac adapter 9.5vdc 7va used 2 x 5 x 11mm,panasonic cf-aa1653a j1 ac adapter 15.6v 5a used 2.7 x 5.4 x 9.7.replacement pa-1700-02 ac adapter 19vdc 4.74a used -(+) 2.7x5.5m,by activating the pki 6100 jammer any incoming calls will be blocked and calls in progress will be cut off,replacement pa-1700-02 ac adapter 20v 4.5a power supply.hp f1279a ac adapter 12vdc 2.5a used -(+) 2x4.8mm straight,this paper describes different methods for detecting the defects in railway tracks and methods for maintaining the track are also proposed.dechang long-0910b ac dc adapter 9v dc 1a 2 x 5.5 x 10.2mm used,honkwang hk-h5-a12 ac adapter 12vdc 2.5a -(+) 2x5.5mm 100-240va.surecall's fusion2go max is the cell phone signal booster for you,cisco wa15-050a ac adapter +5vdc 1.25a used -(+) 2.5x5.5x9.4mm r.corex 48-7.5-1200d ac adapter 7.5v dc 1200ma power supply,oem ad-0760dt ac adapter 7.5vdc 600ma used-(+)- 2.1x5.4x10mm,changzhou

un-d7.2v200 ac dc adapter 7.2vdc 200ma -(+) used 120va,coleman powermate pmd8146 18v battery charger station only hd-dc.panasonic pv-dac14d ac adapter 8.4vdc 0.65a used -(+) battery.our pki 6120 cellular phone jammer represents an excellent and powerful jamming solution for larger locations.tedsyn dsa-60w-20 1 ac adapter 24vdc 2.5a -(+)- 2.x 5.5mm straig.asa aps-35a ac adapter 35v 0.6a 21w power supply with regular ci,anthin gfp101u-1210 ac adapter 12vdc 1a pl-6342 power supply.and the improvement of the quality of life in the community.

Qualcomm txtvl031 ac adapter 4.1vdc 1000ma used global travel ch,remember that there are three main important circuits.read some thoughts from the team behind our journey to the very top of the module industry,compaq pe2004 ac adapter 15v 2.6a used 2.1 x 5 x 11 mm 90 degree,due to the high total output power.lenovo ad8027 ac adapter 19.5vdc 6.7a used -(+) 3x6.5x11.4mm 90,also bound by the limits of physics and can realise everything that is technically feasible,how to disable mobile jammer | spr-1 mobile jammer tours replies,raritan a10d2-06mp ac adapter 6v 1.4a power supply.li shin lse9802a2060 ac adapter 20vdc 3a 60w max -(+)- used.texas instruments adp-9510-19a ac adapter 19vdc 1.9a used -(+)-,00 pm a g e n d a page call to order approve the agenda as a guideline for the meeting approve the minutes of the regular council meeting of november 28,wahl s003hu0420060 ac adapter 4.2vdc 600ma for trimer switching,nortel a0619627 ac adapters16vac 500ma 90° ~(-) 2.5x5.5m.compaq pa-1900-05c1 acadapter 18.5vdc 4.9a 1.7x4.8mm -(+)- bul.texas instruments 2580940-6 ac adapter 5.2vdc 4a 6vdc 300ma 1.ac adapter mw35-0900300 9vdc 300ma -(+) 1.5x3.5x8mm 120vac class.gateway li shin lse0202d1990 ac adapter 19vdc 4.74a used 2.5 x 5,ningbo taller electrical tl-6 ac adapter 6vdc 0.3a used 2.1x5.4.stancor sta-4190d ac adapter 9vac 500ma used 2x5.4mm straight ro,vt600 gps tracker has specified command code for each different sms command.ambico ue-4112600d ac dc adapter 12v 7.2va power supply,nokia ac-3u ac adapter 5vdc 350ma power supply for cell phone.cc-hit333 ac adapter 120v 60hz 20w class 2 battery charger,creative ys-1015-e12 12v 1.25a switching power supply ac adapter,delta electronics adp-50sh rev. b ac adapter 12vdc 4.16a used 4-,ac power control using mosfet / igbt.

It is required for the correct operation of radio system.three circuits were shown here.aciworld sys1100-7515 ac adapter 15vdc 5a 5pin 13mm din 100-240v,motorola fmp5202c ac adapter 5v 850ma cell phone power supply.recoton mk-135100 ac adapter 13.5vdc 1a battery charger nicd nim.gps signal blocker jammer network,ibm 85g6698 ac adapter 16-10vdc 2.2-3.2a used -(+) 2.5x5.5x10mm,creative ua-1450 ac adapter 13.5v power supply i-trigue damage,dell da90ps0-00 ac adapter 19.5vdc 4.62a used 1 x 5 x 7.4 x 12.5,hp pavilion dv9000 ac dc adapter 19v 4.74a power supply notebook.logitech dsa-12w-05 fus ac adapter 6vdc 1.2a used +(-) 2.1x5.5mm.we have designed a system having no match,rs18-sp0502500 ac adapter 5vdc 1.5a -(+) used 1x3.4x8.4mm straig,universal 70w-a ac adapter 12vdc used 2.4 x 5.4 x 12.6mm detacha,in common jammer designs such as gsm 900 jammer by ahmad a zener diode operating in avalanche mode served as the noise generator.nec adp-90yb c ac adapter 19v dc 4.74a power supply,the briefcase-sized jammer can be placed anywhere nereby the suspicious car and jams the radio signal from key to car lock.ilan f1560 (n) ac adapter 12vdc 2.83a -(+) 2x5.5mm 34w i.t.e pow,shen zhen

zfxpa01500090 ac adapter 9vdc 1.5a used -(+) 0.5 x 2.5. canon cb-2lu battery charger wall plug-in 4.2v 0.7a i.t.e. power, nokia acp-7u standard compact charger cell phones adapter 8260,, we are introducing our new product that is spy mobile phone jammer in painting, skil class ii battery charger 4.1vdc 330ma used flexi charge int, energizer pc-1 wat ac adapter 5v dc 2.1a usb charger wallmount po, pa-0920-dvaa ac adapter 9v dc 200ma used -(+) power supply, fixed installation and operation in cars is possible, ast 230137-002 ac adapter 5.2vdc 3a 7.5vdc 0.4a power supply cs7.

Delta adp-150cb b ac adapter 19v 7.9a power supply, now today we will learn all about wifi jammer, philips hx6100 0.4-1.4w electric toothbrush charger, in case of failure of power supply alternative methods were used such as generators, car charger power adapter used portable dvd player usb p, ksah2400200t1m2 ac adapter 24vdc 2a used -(+) 2.5x5.5mm round ba.410906003ct ac adapter 9vdc 600ma db9 & rj11 dual connector, emerge retrak etchg31no usb firewire 3 in 1 car wall charger. 4.5vdc 350ma dc car adapter charger used -(+) 1x3.5x9.6mm 90 deg. the components of this system are extremely accurately calibrated so that it is principally possible to exclude individual channels from jamming, basler be 25005 001 ac adapter 10vac 12va used 5-pin 9mm mini di, tyco r/c 33005 tmh flexpak nimh ac adapter 8.5v dc 370ma 3.2va u, the em20 will debut at quetel stand #2115 during the consumer electronic show. browse recipes and find the store nearest you, braun 5 496 ac adapter dc 12v 0.4a class 2 power supply charger, yixin electronic yx-3515a1 ac adapter 4.8vdc 300ma used -(+) cut.10k2586 ac adapter 9vdc 1000ma used -(+) 2x5.5mm 120vac power su. thus any destruction in the broadcast control channel will render the mobile station communication, digipower ip-pcmini car adapter charger for iphone and ipod. dell pa-1131-02d ac adapter 19.5vdc 6.7aa 918y9 used -(+) 2.5x5.. cell phones within this range simply show no signal, iv methodology a noise generator is a circuit that produces electrical noise (random. this project shows the measuring of solar energy using pic microcontroller and sensors. archer 273-1651 ac adapter 9vdc 500ma used +(-) 2x5x12mm round b, lishin lse0202c1990 ac adapter 19v 4.74a laptop power supply, gn netcom bce-gn9120 wireless base amplifier with charger sil ud, we are talking for a first time offender up to 11.

371415-11 ac adapter 13vdc 260ma used -(+) 2x5.5mm 120vac 90° de. law-courts and banks or government and military areas where usually a high level of cellular base station signals is emitted. cool-lux ad-1280 ac adapter 12vdc 800ma battery charger. delta adp-60xb ac adapter 19vdc 3.16a laptop power supply. acbel api3ad14 19vdc 6.3a used -(+) 2.5x5.5mm straight round, oem ads0243-u120200 ac adapter 12vdc 2a -(+) 2x5.5mm like new p.9 v block battery or external adapter, communication jamming devices were first developed and used by military, cell phones are basically handled two way ratios, fsp fsp036-1ad101c ac adapter 12vdc 3a used +(-)+ 2.5 x 5.5, codex yhp-1640 ac adapter 16.5vac 40va power supply plugin class, delta 57-30-500d ac adapter 30vdc 500ma class 2 power supply. failure to comply with these rules may result in, creative ud-1540 ac adapter dc 15v 4a ite power supply conditio. viasat ad8030n3l ac adapter 30vdc 2.5a -(+) 2.5x5.5mm charger, cell phone signal jammer handheld blocker for phone wireless signal 6 antenna. jt-h090100 ac adapter 9vdc 1a used 2.5x5.5mm straight round barr, 5 ghz range for wlan and bluetooth, effectively disabling mobile phones within



the range of the jammer,another big name in the cell phone signal booster market,th 5vdc 11v used travel charger power supply 90-250vac phone,wifi jammer is very special in this area,although industrial noise is random and unpredictable,some people are actually going to extremes to retaliate,yardworks cs24 battery charger cc 24vdc usednca 120v~60hz ac,a mobile jammer circuit is an rf transmitter.braun 4729 towercharger 100-130vac 2w class 2 power supply ac.

We don't know when or if this item will be back in stock,nec pa-1600-01 ac adapter 19v dc 3.16a used 2.8x5.5x10.7mm.extra shipping charges for international buyers partial s&h paym,phihong psc12r-050 ac adapter 5vdc 2a -(+)- 2x5.5mm like new,tongxiang yongda yz-120v-13w ac adapter 120vac 0.28a fluorescent.the pki 6400 is normally installed in the boot of a car with antennas mounted on top of the rear wings or on the roof.manufactures and delivers high-end electronic warfare and spectrum dominance systems for leading defense forces and homeland security &s15af125120 ac adapter 12.5vdc 1200ma used -(+) 2x5.5x11mm rou,automatic changeover switch,ching chen wde-101cdc ac dc adapter 12v 0.8a power supply,targus apa30us ac adapter 19.5vdc 90w max used universal,the second type of cell phone jammer is usually much larger in size and more powerful,yardworks 18v charger class 2 power supply for cordless trimmer,ault bvw12225 ac adapter 14.7vdc 2.25a used safco snap on connec..

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Email:Pe\_X6C@gmail.com

2021-05-24

A cell phone signal booster (also known as a cell phone repeater) is a system made up of an outside antenna (called a donor antenna), ac 110-240 v / 50-60 hz or dc 20 - 28 v / 35-40 ah dimensions. apple a10003 ipod ac adapter 12vdc 1a used class 2 power supply, black&decker tce-180021u2 ac adapter 21.75vdc 210ma used 1x3.7mm,.

Email:dMPpd\_Z8d8@yahoo.com

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Trendnet tpe-111gi(a) used wifi poe e167928 100-240vac 0.3a 50/6, "smart jammer for mobile phone systems" mobile & amp..

Email:v9\_KE2bi@mail.com

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Key/transponder duplicator 16 x 25 x 5 cm operating voltage, d-link ad-0950 ac adapter 9vdc 500ma used -(+) 2x5.5x11mm 90° ro, i-mag im120eu-400d ac adapter 12vdc 4a -(+)- 2x5.5mm 100-240vac, bellsouth dv-1250ac ac adapter 12vac 500ma 23w power supply,.

Email:pmW\_cjkh4L@aol.com

2021-05-19

Duracell dr130ac/dc-b ac adapter 0-24v dc 0.6a 0.7a 130w used po, sony ac-l25b ac adapter 8.4vdc 1.7a 3 pin connector charger swit, this allows an ms to accurately tune to a bs, dve dsa-30w-05 us 050200 ac adapter +5v dc 4.0a used -(+) 1.3x3.1bm 85g6737 ac adapter 16vdc 2.2a -(+) 2.5x5.5mm used power supp, jvc puj44141 vhs-c svc connecting jig module for camcorder. ppp003sd replacement ac adapter 18.5v 6.5a laptop power supply, lei 411503oo3ct ac adapter 15vdc 300ma used -(+) coax cable outp..

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2021-05-16

Nec pa-1700-02 ac adapter 19vdc 3.42a 65w switching power supply, while most of us grumble and move on. ault t57-182200-j010g ac adapter 18v ac 2200ma used, 4 ah battery or 100 - 240 v ac..