# FAT-N Powerware

# Powerware® 9170+ Online Uninterruptible Power System



### **Features**

- N+X redundancy for both power and logic eliminates system-level single point-of-failure
- · Easily scalable to adapt to changing IT environments by simply adding power and/or battery modules
- · True double-conversion online design
- Advanced Battery Management (ABM)® technology doubles battery service life
- · Universal components fit in any order without affecting UPS operation
- · Provides protection against all nine power problems
- · Complete offering of power management software included to ensure data integrity
- Warranty (US and Canada)
  - -2-year limited warranty
  - -10-year pro-rated warranty
  - -\$25,000 load protection guarantee

### **Product Snapshot**

Power Rating:3-18 kVAInput Voltage:200-240 VacOutput Voltage:200-240 VacFrequency:50/60 Hz

50/60 Hz (auto-sensing)

Configuration:

Tower or rackmount

The emergence of the e-business economy has demonstrated a new standard in system availability: zero downtime. This standard ranges from the largest data centers of the Internet and e-business infrastructure, to the server farms, networks, telecommunications and Internet service providers (ISPs) that are quickly becoming the foundation of all business worldwide. This in turn has been driving the most aggressive wave of innovation in power technologies, specifically UPS solutions, in decades. The new e-business economy demands that technological solutions be quickly and easily deployed on a global scale.

The Powerware 9170+ is unique-

ly designed to meet these everchanging customer needs. Built for a global audience, the 9170+ is a scalable, modular, flexible solution that combines the highest level of reliability with the lowest cost of ownership in the 3–18 kVA range.

The 9170+ enables customers to build a power solution specific to their needs, with an expandable level of redundancy and increases runtimes through plug-and-play 3 kVA UPS and battery modules. The 9170+ can be configured to fit three-, six-, nine- or twelve-slot enclosures, and is available for tower and rackmount applications. The 9170+ also features a new Power Saver mode, a user-selectable feature that increases

unit efficiency from 88% in normal operating mode to 97% in Power Saver mode. With its low initial investment, double conversion online technology, ABM battery management system, and new high-efficiency Power Saver mode, you will never have to compromise reliability for efficiency.

Unique to the 9170+ is its global deployment capability. By using a high frequency design, housing both logic and power in the power module, and offering a single cabinet design, distributors and purchasing departments around the world will have fewer system components to contend with, regardless of where the system is deployed.

### Technical Spotlight: Network-level N+X redundancy

As business moves from a "bricks and mortar" model to "clicks and mortar," the need for system availability at all levels of enterprise is rising exponentially. From servers to routers to telecommunication installations, the interdependence of the technological components of the wired world can make systems vulnerable to downtime. Many precautions and preventive measures are taken when designing the network, including power protection.

In this shifting world, however, it's becoming more evident

that simple power protection isn't enough. A new level of reliability is needed, one with redundancy, and thereby system availability. Today users can opt for an even greater degree of redundancy, with N+1, N+2, N+3, etc. However, this level of redundancy can quickly become cost prohibitive if the user is creating redundant systems with a single module UPS. The 9170+ overcomes this potential obstacle with its modular design. Redundancy comes from the 3 kVA power modules plugged into the system. For example, if you have a 9 kVA solution, and are looking for N+2 redundancy, you only need a 15 kVA UPS (five power modules) with the

9170+, instead of 18 kVA. That's because the five UPS modules run in parallel within the system, giving you N+2 redundancy, without the additional cost and space requirements.

Powerware 9170+ eliminates a system-level single point-of-failure. Because both the logic and power are housed in the module and not in the enclosure, there is a redundancy for the entire UPS. This is a critical distinction when looking for multiple levels of redundancy in the UPS, as there is inherent vulnerability in a UPS that limits redundancy in any part of the system.



## Powerware Software Suite

The industry's most comprehensive software bundle, the Powerware Software Suite, is free and included with every Powerware 9170+ UPS.

- Software Wizard guides you through software selection and installation
- In addition to multimedia demonstrations, product data sheets, and video clips, the Software Suite contains the following power management software:
- LanSafe™ III network shutdown for UPSs
- OnliNet® software (Vista and Centro): SNMP-based network shutdown and monitoring for UPSs
- PowerVision® software (30day trial version): UPS performance analysis monitoring
- Foreseer® software (demonstration): Facility and data center management

### Technical Specifications<sup>1</sup>

### **ELECTRICAL INPUT**

Voltage	208-240V or 200/100, 208/120, 220/110, 240/120 Vac
Voltage Range	176-276V
Input Power Factor	.98
Frequency	50/60 Hz (±3 Hz)
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### **ELECTRICAL OUTPUT**

On Utility Voltage Regulation	±3% of nominal
On Battery Voltage Regulation	±3% of nominal
Efficiency	88% normal operation; 97% power saver mode (optional programmable)
Frequency Regulation	±3 Hz online; ±0.1 Hz on battery

### COMMUNICATIONS

LCD Display	4 x 20 character backlit display, programmable					
Language Support	English, French, Spanish and German					
Communication ports	RS232, (DB9) (std)					
Communication slots	2 Slots (standard)					
SNMP capability	SNMP/Web enabled card options					
Contact Closures	Relay Card option					
Emergency Power off (EPO)General	Input for external EPO					

### GENERAL

Topology	True online, double-conversion
Diagnostics	Full system self-test on power up
UPS bypass	Automatic on overload or UPS failure
Dimensions & weights	See Model Selection Guide

<sup>1.</sup> Due to continuing product improvement programs, specifications are subject to change without notice.

### **ENVIRONMENTAL AND SAFETY**

Safety markings	UL, CUL
EMC markings	FCC class A
Surge suppression	IEEE/ANSI C62.41
Audible noise	<50dBA
Ambient operating/	0 to 40°C (32 to 104°F)/
storage temperature	-20 to 40°C (60°C w/o batt)
	-4 to 104°F (140° F w/o batt)
Relative humidity	5% to 95%, non-condensing
REPO port	Meets NEC code 645-11 intent and UL requirements

### **BATTERY**

Internal battery type	Sealed, lead-acid; maintenance free
Battery runtime	See Battery Runtimes on back page
Battery replacement	Hot-swappable
Recharge time	<4 hours standard

MODEL NUMBER		POWER Rating	INPUT CONNECTION	OUTPUT CONNECTIONS	DIMENSIONS HXWXD (IN/CM)	WEIGHT (LB/KG)						
PRE-CONFIGURED SYSTEMS WITH HARDWIRE INPUT AND OUTPUT												
PW3S3K includes:	(1) 3 slot enclosure (1) power module (1) power module (1) caster kit	3 kVA expandable to 3 kVA N+1	Hardwired	Hardwired	19.5 x 17.0 x 25.5/ 49.5 x 43.0 x 65.0	155.0/69.9						
PW6S3K includes:	(1) 6 slot enclosure (1) power module (2) battery modules (1) caster kit	3 kVA expandable to 9 kVA N+X	Hardwired	Hardwired	33.3 x 17.0 x 25.5/ 84.5 x 43.0 x 65.0	155.0/69.9						
PW6S6K includes:	(1) 6 slot enclosure (2) power modules (4) battery modules (1) caster kit	6 kVA expandable to 9 kVA N+X	Hardwired	Hardwired	33.3 x 17.0 x 25.5/ 84.5 x 43.0 x 65.0	232.0/104.8						
PW6S9K includes:	(1) 6 slot enclosure (3) power modules (6) battery modules (1) caster kit	9 kVA expandable to 9 kVA N+X	Hardwired	Hardwired	33.3 x 17.0 x 25.5/ 84.5 x 43.0 x 65.0	346.0/156.7						
PW9S9K includes:	W9S9K includes: (1) 9 slot enclosure (3) power modules (6) battery modules		Hardwired	Hardwired	47.0 x 24.0 x 28.5/ 119.5 x 61.0 x 72.5	389.0/176.7						
PW12S9K includes: (1) 12 slot enclosure (3) power modules (6) battery modules		9 kVA expandable to 18 kVA N+X	Hardwired	Hardwired	60.7 x 24.0 x 28.5/ 154.5 x 61.0 x 28.5	427.0/193.7						
PW12S12K includes:	(1) 12 slot enclosure (4) power modules (8) battery modules	12 kVA expandable to 18 kVA N+X	Hardwired	Hardwired	60.7 x 24.0 x 28.5/ 154.5 x 61.0 x 28.5	504.0/228.6						
PW12S15K includes:	(1) 12 slot enclosure (5) power modules (10) battery modules	15 kVA expandable to 18 kVA N+X	Hardwired	Hardwired	60.7 x 24.0 x 28.5/ 154.5 x 61.0 x 28.5	581.0/263.5						
PW12S18K includes:	(1) 12 slot enclosure (6) power modules (12) battery modules	18 kVA expandable to 18 kVA N+X	Hardwired	Hardwired	60.7 x 24.0 x 28.5/ 154.5 x 61.0 x 28.5	658.0/298.4						
PRE-CONFIGURED SYS	STEMS WITH HARDWIRE INPU	IT AND RECEPTACLES OUTPU	T OPTIONS									
PW6S3K-PD includes:	(1) 6 slot enclosure (1) power module (2) battery modules (1) caster kit	ot enclosure 3 kVA ver module expandable to very modules 9 kVA N+X		(2) L14-30R, (2) L6-30R, (12) 5-20R	33.3 x 17.0 x 25.5/ 84.5 x 43.0 x 65.0	192.0/86.9						
PW6S6K-PD includes:	(1) 6 slot enclosure (2) power modules (4) battery modules (1) caster kit	6 kVA expandable to 9 kVA N+X	Hardwired	(2) L14-30R, (2) L6-30R, (12) 5-20R	33.3 x 17.0 x 25.5/ 84.5 x 43.0 x 65.0	269.0/121.8						
PW6S9K-PD includes:	(1) 6 slot enclosure (3) power modules (6) battery modules (1) caster kit	9 kVA expandable to 9 kVA N+X	Hardwired	(2) L14-30R, (2) L6-30R, (12) 5-20R	33.3 x 17.0 x 25.5/ 84.5 x 43.0 x 65.0	346.0/160.7						
PW9S9K-PD includes:	(1) 9 slot enclosure (3) power modules (6) battery modules	9 kVA expandable to 18 kVA N+X	Hardwired	(2) L14-30R, (2) L6-30R, (12) 5-20R	47.0 x 24.0 x 28.5/ 119.5 x 61.0 x 72.5	389.0/176.7						

MODEL Number		POWER RATING	INPUT CONNECTION	OUTPUT CONNECTIONS	DIMENSIONS HXWXD (IN/CM)	WEIGHT (LB/KG)
PRE-CONFIGURED SYSTEM	MS WITH HARDWIRE INPUT	AND RECEPTACLES OUT	PUT OPTIONS			
PW12S9K-PD includes:	(1) 12 slot enclosure (3) power modules (6) battery modules	9 kVA expandable to 18 kVA N+X	Hardwired	(3) L14-30R, (3) L6-30R, (12) 5-20R	60.7 x 24.0 x 28.5/ 154.5 x 61.0 x 28.5	427.0/193.7
PW12S12K-PD includes:	(1) 12 slot enclosure (4) power modules (8) battery modules	12 kVA expandable to 18 kVA N+X	Hardwired	(3) L14-30R, (3) L6-30R, (12) 5-20R	60.7 x 24.0 x 28.5/ 154.5 x 61.0 x 28.5	504.0/228.6
PW12S15K-PD includes:	(1) 12 slot enclosure (5) power modules (10) battery modules	15 kVA expandable to 18 kVA N+X	Hardwired	(3) L14-30R, (3) L6-30R, (12) 5-20R	60.7 x 24.0 x 28.5/ 154.5 x 61.0 x 28.5	581.0/263.5
PW12S18K-PD includes:	(1) 12 slot enclosure (6) power modules (12) battery modules	18 kVA expandable to 18 kVA N+X	Hardwired	(3) L14-30R, (3) L6-30R, (12) 5-20R	60.7 x 24.0 x 28.5/ 154.5 x 61.0 x 28.5	658.0/298.4
PRE-CONFIGURED SYSTEM	MS WITH LINE CORD INPUT	AND RECEPTACLES OUTF	PUT OPTIONS			
PW3S3K-LPD includes:	(1) 3 slot enclosure (1) power module (2) battery modules (1) caster kit	3 kVA expandable to 3 kVA N+1	L14-30P	(1) L14-30R, (1) L6-30R, (4) 5-20R	19.5 x 17.0 x 25.5/ 49.5 x 43.0 x 65.0	155.0/69.9
PW6S3K-LPD includes:	(1) 6 slot enclosure (1) power module (2) battery modules (1) caster kit	3 kVA expandable to 9 kVA N+X	14-50P	(2) L14-30R, (2) L6-30R, (12) 5-20R	33.3 x 17.0 x 25.5/ 84.5 x 43.0 x 65.0	192.0/86.9
PW6S6K-LPD includes:	(1) 6 slot enclosure (2) power modules (4) battery modules (1) caster kit	6 kVA expandable to 9 kVA N+X	14-50P	(2) L14-30R, (2) L6-30R, (12) 5-20R	33.3 x 17.0 x 25.5/ 84.5 x 43.0 x 65.0	269.0/121.8
UPS CABINET ENCLOSURI	ES WITH HARDWIRE INPUT A	AND OUTPUT CONNECTION	ONS			
PW9170+ 3 Slot		3 kVA	Hardwired	Hardwired	17.8 x 17.0 x 25.5/ 45.0 x 43.0 x 65.0	66.0/30.0
PW9170+ 6 Slot		3 to 9 kVA	Hardwired	Hardwired	31.5 x 17.0 x 25.0/ 80.0 x 43.0 x 65.0	103.0/47.0
PW9170+ 9 Slot		3 to 18 kVA	Hardwired	Hardwired	47.0 x 24.0 x 28.5/ 119.5 x 61.0 x 72.5	158.0/72.0
PW9170+ 12 Slot		3 to 18 kVA	Hardwired	Hardwired	60.8 x 24.0 x 28.5/ 154.0 x 61.0 x 72.5	196.0/89.0
BATTERY CABINET ENCLO	SURES					
6 slot battery cabinet		-	DC interconnect option ASY-0525 required	ı -	31.5 x 17.0 x 25.0/ 80.0 x 43.0 x 65.0	93.0/42.2
9 slot battery cabinet		-	DC interconnect option ASY-0525 required	-	47.0 x 24.0 x 28.5/ 119.5 x 61.0 x 72.5	148.0/67.1
12 slot battery cabinet		-	DC interconnect option ASY-0525 required	-	60.8 x 24.0 x 28.5/ 154.0 x 61.0 x 72.5	186.0/84.4
AVAILABLE MODULES						
Split phase power module		3 kVA/2.5 kw	-	-	4.2 x 14.1 x 15.3/ 10.6 x 35.8 x 38.9	17.0/7.7
Universal phase power mo	odule	3 kVA/2.1 kw	-	-	4.2 x 14.1 x 15.3/ 10.6 x 35.8 x 38.9	17.0/7.7
Battery module		-	-	-	4.2 x 7.0 x 14.8/ 10.6 x 17.8 x 37.6	30.0/13.6
20 Amp charger module		3 kVA	-	-	4.2 x 14.1 x 15.3/ 10.6 x 35.8 x 38.9	17.0/7.7



Powerware 9170+ 6 slot configuration

### **Maximum Performance**

- The lowest overall cost of ownership is a direct result of the low initial investment, higher operating efficiencies and programmable high efficiency
- A UPS solution that is as easy to install and operate as a PC
   Universal components fit in any order in any slot without affecting the operation of the system or its protection of the critical load
- Featuring user-friendly LCD display and two internal communication slots, which accept a wide variety of connectivity devices and the new SNMP/ Web adapter card
- Lightweight, high-performance power and battery modules weigh under 30 lbs. for easy service and hot-swapping

### **Maximum Reliability**

- N+X power and logic redundancy eliminates single pointof-failure, providing highest reliability and availability
- Redundant modularity virtually eliminates downtime and enhances serviceability
- Advanced Battery Management ABM® technology doubles battery service life

### LCD panel





3 kVA power or charger module (1 per slot)

### **Maximum Availability**

- Double-conversion online technology is universally recognized as providing the highest availability in an internet-centric global marketplace
- Provides protection against all nine common power problems

### **Maximum Service Plans**

- Powerware Gold Plan Plus: Enhance and extend your standard UPS warranty with added assurance of knowing your UPS is installed and operating properly from the start
- Comprehensive coverage for the entire UPS
- On-site start-up by authorized Powerware product representative
- Replacement UPS or module delivered to your location
- Original UPS or module picked up from your location
- · Please call for details

### Communication cards





Battery module (2 per slot)

### **Maximum Flexibility**

- Modular design delivers scalable, flexible solutions to constantly changing equipment requirements
- Easily expanded by installing additional power, charger, or battery modules to support additional critical applications and devices
- Internal options: galvanic isolation, line cord, receptacles, communications
- External options: rackmount kit, casters (standard on 9- and 12-slot enclosures), extended runtime battery cabinets (housing up to 8 hours of additional runtime), wall-mounted maintenance bypass cabinets



## Rackmount configurations

Adding yet another level of flexibility to the unique design of the Powerware 9170+ is the ability to configure it into a rackmount solution. Imagine all the standard benefits of the Powerware 9170+ installed in a standard 19 inch computer rack.

### Powerware 9170+ Runtime Charts

### RUNTIME CHART IN MINUTES (FULL LOAD / HALF LOAD) SPLIT-PHASE MODULE ASY-0673 Load (VA) Number of strings (2 battery modules per string)

	1 STRING	2 STRING	3 STRING	4 STRING	5 STRING	6 STRING	7 STRING	8 STRING	9 STRING	10 STRING	11 STRING	12 STRING
3 kVA	6.5/16	16/40	27.5/67.5	40/98	53.5/132	67.5/167	83/204	98/242	115/283	132/324	149/365	167/408
6 kVA		6.5/16	11/27.5	16/40	21.5/53.5	27.5/68	33.5/83	40/98	46.5/115	53.5/132	60.5/149	67.5/167
9 kVA			6.5/16	9.5/23.5	13/31.5	16/40	20/49	23.5/58	27.5/67.5	31.5/78	35.5/88	40/98
12 kVA				6.5/16	9/21.5	11/27.5	13.5/33.5	16/40	19/46.5	21.5/53.5	24.5/60.5	27.5/68
15 kVA					6.5/16	8/20.5	10/25	12/30	14/35	16/40	18.5/45	20.5/50.5
18 kVA						6.5/16	8/20	9.5/23.5	11/27.5	12.5/30	14.5/35.5	16/40

	13 STRING	14 STRING	15 STRING	16 STRING	17 STRING	18 STRING	19 STRING	20 STRING	21 STRING	22 STRING	23 STRING	24 STRING
3 kVA	185/456	204/501	223/549	242/595	262/640	283/692	302/750	323/790	345/850	365/900	387/955	408/1015
6 kVA	75/185	83/204	90/223	98/242	106/262	115/285	123/302	132/324	140/345	149/365	157/388	167/408
9 kVA	44/109	49/120	53.5/132	58/143	63/154	68/167	73/179	78/191	83/204	88/210	93/229	98/242
12 kVA	30.5/75	33.5/83	37/90	40/98	43/106	46.5/115	50/123	53.5/132	57/140	60/149	64/157	68/167
15 kVA	23/56	25/62	27.5/67.5	30/73.5	32.5/79.5	35/86	37.5/92	40/98	42.5/105	45/111	48/118	51/124
18 kVA	18/44	20/49	21.5/53.5	23.5/58	25.5/63	27.5/68	29.5/73	31.5/78	33.5/83	35.5/88	38/93	40/98

### RUNTIME CHART IN MINUTES (FULL LOAD / HALF LOAD) SPLIT-PHASE MODULE ASY-0674 Load (VA) Number of strings (2 battery modules per string)

	1 STRING	2 STRING	3 STRING	4 STRING	5 STRING	6 STRING	7 STRING	8 STRING	9 STRING	10 STRING	11 STRING	12 STRING
3 kVA	8/24	24/59	43/95	58/140	80/175	95/215	119/240	135/290	155/335	65/365	200/395	215/450
6 kVA		8/24	16/40	24/59	32/83	40/103	49/114	58/140	69/156	83/175	90/190	103/205
9 kVA			8/24	13/35	18/46	24/59	29/63	35/86	40/103	46/115	54/125	58/140
12 kVA				8/24	13/33	16/40	19.5/43.5	24/59	29/70	33/80	36/90	41/100
15 kVA					8/24	11.5/31	14.5/31.5	18/46	20.5/51	24/58	28/66	31/73
18 kVA						8/24	11/31.5	13/36	15.5/41	18/45	20.5/51	24/58

13 STRING	14 STRING	15 STRING	16 STRING	17 STRING	18 STRING	19 STRING	20 STRING	21 STRING	22 STRING	23 STRING	24 STRING
225/500	245/540	270/600	290/620	315/650	335/690	350/720	365/780	375/850	395/890	425/920	450/950
113/335	123/255	135/273	143/290	148/315	156/333	165/350	175/365	183/385	190/395	198/420	205/440
63/150	73/165	80/178	86/190	93/200	100/210	107/225	115/240	121/255	125/270	135/280	143/290
47/110	52/121	56/130	58/140	65/147	70/156	75/165	80/175	85/185	90/195	95/205	100/215
34/83	38/94	41.5/103	44.5/113	46.5/117	51/127	56/130	58/140	61/149	66/158	71/165	73/170
27/65	31.5/72	34.5/77	36/83	38/94	41/100	44/105	45/115	48/122	54/131	57/137	58/140
	225/500 113/335 63/150 47/110 34/83	225/500     245/540       113/335     123/255       63/150     73/165       47/110     52/121       34/83     38/94	225/500         245/540         270/600           113/335         123/255         135/273           63/150         73/165         80/178           47/110         52/121         56/130           34/83         38/94         41.5/103	225/500         245/540         270/600         290/620           113/335         123/255         135/273         143/290           63/150         73/165         80/178         86/190           47/110         52/121         56/130         58/140           34/83         38/94         41.5/103         44.5/113	225/500         245/540         270/600         290/620         315/650           113/335         123/255         135/273         143/290         148/315           63/150         73/165         80/178         86/190         93/200           47/110         52/121         56/130         58/140         65/147           34/83         38/94         41.5/103         44.5/113         46.5/117	225/500         245/540         270/600         290/620         315/650         335/690           113/335         123/255         135/273         143/290         148/315         156/333           63/150         73/165         80/178         86/190         93/200         100/210           47/110         52/121         56/130         58/140         65/147         70/156           34/83         38/94         41.5/103         44.5/113         46.5/117         51/127	225/500         245/540         270/600         290/620         315/650         335/690         350/720           113/335         123/255         135/273         143/290         148/315         156/333         165/350           63/150         73/165         80/178         86/190         93/200         100/210         107/225           47/110         52/121         56/130         58/140         65/147         70/156         75/165           34/83         38/94         41.5/103         44.5/113         46.5/117         51/127         56/130	225/500         245/540         270/600         290/620         315/650         335/690         350/720         365/780           113/335         123/255         135/273         143/290         148/315         156/333         165/350         175/365           63/150         73/165         80/178         86/190         93/200         100/210         107/225         115/240           47/110         52/121         56/130         58/140         65/147         70/156         75/165         80/175           34/83         38/94         41.5/103         44.5/113         46.5/117         51/127         56/130         58/140	225/500         245/540         270/600         290/620         315/650         335/690         350/720         365/780         375/850           113/335         123/255         135/273         143/290         148/315         156/333         165/350         175/365         183/385           63/150         73/165         80/178         86/190         93/200         100/210         107/225         115/240         121/255           47/110         52/121         56/130         58/140         65/147         70/156         75/165         80/175         85/185           34/83         38/94         41.5/103         44.5/113         46.5/117         51/127         56/130         58/140         61/149	225/500         245/540         270/600         290/620         315/650         335/690         350/720         365/780         375/850         395/890           113/335         123/255         135/273         143/290         148/315         156/333         165/350         175/365         183/385         190/395           63/150         73/165         80/178         86/190         93/200         100/210         107/225         115/240         121/255         125/270           47/110         52/121         56/130         58/140         65/147         70/156         75/165         80/175         85/185         90/195           34/83         38/94         41.5/103         44.5/113         46.5/117         51/127         56/130         58/140         61/149         66/158	225/500         245/540         270/600         290/620         315/650         335/690         350/720         365/780         375/850         395/890         425/920           113/335         123/255         135/273         143/290         148/315         156/333         165/350         175/365         183/385         190/395         198/420           63/150         73/165         80/178         86/190         93/200         100/210         107/225         115/240         121/255         125/270         135/280           47/110         52/121         56/130         58/140         65/147         70/156         75/165         80/175         85/185         90/195         95/205           34/83         38/94         41.5/103         44.5/113         46.5/117         51/127         56/130         58/140         61/149         66/158         71/165

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