

48 kW Liquid-Cooled Generator Set

Standby Power Rating

HG04845 – (Aluminium, Dark Gray) – 48 kW 60 Hz

INCLUDES

- **Innovative engine design and rigorous testing:** Total commitment to component testing, reliability testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards allows users to choose Honeywell generators with the confidence that these systems will provide superior performance.
- **PrecisionPower™ Electrical Technology:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic and microchip based appliances, such as variable speed HVAC.
- **Solid-State, Frequency Compensated Voltage Regulation:** This state-of-the-art, power maximizing regulation system is the standard on all Honeywell models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at $\pm 1\%$.
- **Single Source Service Response:** Our extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electrical component.
- **Honeywell Transfer Switches:** The Honeywell generator line is offered with its own transfer systems and controls for total system compatibility



FEATURES & BENEFITS

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|---------------------------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------|---------------------------------------|----------------------------------------------------------------------|
| • PrecisionPower™ Electrical Technology | • UV/Ozone resistant hoses | • $\pm 1\%$ voltage regulation | • Sound attenuated aluminum enclosure | • 5 Year premium limited warranty |
| • Two-line multilingual digital LCD controller (English, Spanish, French, Portuguese) | • System and status & maintenance interval LED indicators | • Electronic engine control module | • UL 2200 Listed | • Field convertible fuel type with no mechanical adjustment required |
| • Isochronous electronic governor | • Closed coolant recovery system | • Smart battery charger | • Natural Gas or LP Gas operation | |

48 kW Technical Specifications

GENERATOR SPECIFICATIONS

Type	Synchronous
Rotor insulation class	F
Stator insulation class	H
Telephone Interference Factor (TIF)	<50
Alternator output leads 1-Phase	4 wire
Alternator output leads 3-Phase	6 wire
Bearings	Sealed ball
Coupling	Flexible disc
Excitation system	Direct

VOLTAGE REGULATION

Type	Electronic
Sensing	Single-phase
Regulation	± 1%

GOVERNOR SPECIFICATIONS

Type	Electronic
Frequency regulation	Isochronous
Steady state regulation	± 0.25%

ELECTRICAL SYSTEM

Battery charge alternator	12 volt 30 amp
Static battery charger	2.5 amp
Recommended battery	Group 27F, 725CCA
System voltage (battery not included)	12 volts

GENERATOR FEATURES

Revolving field heavy duty generator
 Directly connected to the engine
 Operating temperature rise 248 °F (120 °C) above a 104 °F (40 °C) ambient
 Class H insulation is NEMA rated
 Class F insulation is NEMA rated
 All models fully prototype tested

ENCLOSURE FEATURES

Aluminum weather protective enclosure	Provides protection against mother nature. Electrostatically applied textured epoxy paint for added durability.
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
Small, compact, attractive	Makes for an easy, eye appealing installation.
SAE	Sound attenuated enclosure ensures quiet operation.

ENGINE SPECIFICATIONS: 22, 27, 32 & 38 KW

Make	Generac
Model	In-line
Cylinders	4
Displacement (L)	4.5
Bore (in / mm)	4.5 / 114.3
Stroke (in / mm)	4.25 / 107.95
Compression ratio	9.9:1
Intake air system	Naturally aspirated
Lifter type	Hydraulic

ENGINE LUBRICATION SYSTEM

Oil pump type	Gear
Oil filter type	Full flow spin-on cartridge
Crankcase capacity (qt / L)	11.6 / 11

ENGINE COOLING SYSTEM

Type	Closed
Water pump	Belt driven
Fan speed (rpm)	2,100
Fan diameter (in / cm)	20 / 50.8
Fan mode	Pusher

FUEL SYSTEM

Fuel type	Natural gas, propane vapor
Fuel shut off solenoid	Standard
Operating fuel pressure	3.5–14 in water column / 0.87–3.48 kPa

48 kW Operating Data

GENERATOR OUTPUT VOLTAGE/KW – 60 HZ

		KW LPG	AMP LPG	KW NATURAL GAS	AMP NATURAL GAS	CB SIZE (BOTH)
HG04845	120/240 V, 1Ø, 1.0 pf	48	200	48	200	200
	120/208 V, 3Ø, 0.8 pf	48	167	48	167	175
	120/240 V, 3Ø, 0.8 pf	48	144	48	144	150
	120/240 V, 1Ø, 1.0 pf	48	72	48	72	80

SURGE CAPACITY IN AMPS

		Voltage Dip @ < 0.4 pf	
		15%	30%
HG04845	120/240 V, 1Ø	100	300
	120/208 V, 3Ø	118	242
	120/240 V, 3Ø	145	260
	277/480 V, 3Ø	64	123

ENGINE FUEL CONSUMPTION

		Natural Gas			Propane	
		(ft ³ /hr)	(m ³ /hr)	(gal/hr)	(ft ³ /hr)	(L/hr)
HG04845	Exercise cycle	—	—	—	—	—
	25% of rated load	201	5.7	2.88	104.7	10.9
	50% of rated load	336	9.5	4.16	151.3	15.7
	75% of rated load	447	12.7	5.28	192	20
	100% of rated load	604	17.1	6.61	240.4	25

Note: Fuel pipe must be sized for full load.

For BTU content, multiply ft³/hr x 2,520 (LP) or ft³/hr x 1,000 (NG)

For megajoule content, multiply m³/hr x 93.15 (LP) or m³/hr x 37.26 (NG)

See "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

48 kW Operating Data

ENGINE COOLING

MODEL	48 KW
Air flow (inlet air including alternator and combustion air in cfm / cmm)	2829 / 80.1
System coolant capacity (gal / L)	2.9 / 11
Heat rejection to coolant (BTU per hr / MJ per hr)	201,060 / 212
Maximum operation air temperature on radiator (°F / °C)	150 / 60
Maximum ambient temperature (°F / °C)	140 / 50

COMBUSTION REQUIREMENTS

Flow at rated power (scfm / cmm)	92.7 / 2.6
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SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m) with generator in exercise mode*	68
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load*	70

*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

Exhaust flow at rated output (scfm / cmm)	104 / 10.6
Exhaust temperature at muffler outlet (°F / °C)	945 / 507

ENGINE PARAMETERS

Rated synchronous rpm	1,800
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POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature deration 1.65% for every 10 °F above 77 °F or 3% for every 10 °C above 25 °C
 Altitude deration 3% for every 1,000 ft above 600 ft or 1% for every 100 m above 183 m

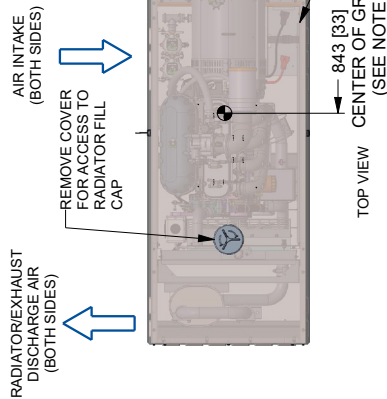
CONTROLLER FEATURES

Two-line plain text LCD.....Simple user interface for ease of operation.
 Mode buttons: AUTO Automatic Start on Utility failure. 7 day exerciser.
 OFF..... Stops unit. Power is removed. Control and charger still operate.
 MANUAL..... Start with starter control, unit stays on. If utility fails, transfer to load takes place.
 Programmable start delay between 2–1500 seconds5 sec standard (programmable by dealer only)
 Engine start sequenceCyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
 Engine warm-up 5 sec
 Engine cool-down 1 min
 Starter lock-out Starter cannot re-engage until 5 sec after engine has stopped.
 Smart battery chargerStandard
 Automatic Voltage Regulation with Over and Under Voltage protectionStandard
 Automatic Low Oil Pressure shutdown.....Standard
 Overspeed shutdown..... Standard, 72 Hz
 High Temperature shutdownStandard
 Overcrank protection.....Standard
 Safety fused.....Standard
 Failure to Transfer protection.....Standard
 Low Battery/Battery Problem protection and Battery Condition indicationStandard
 50 Event Run logStandard
 Future set capable exerciser.....Standard
 Incorrect wiring protection.....Standard
 Internal fault protectionStandard
 Common external fault capabilityStandard
 Governor failure protection.....Standard
 Field upgradeable firmware.....Standard

48 kW Installation Layout

Drawing A0000293718 Rev B (1 of 2)

ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT DATA		SHIPPING SKID	SHIPPING WEIGHT KG [LBS]
		WEIGHT KG [LBS]	WEIGHT KG [LBS]		
4.5L/48KW	AL	808 [1781]	51 [112]	859 [1893]	

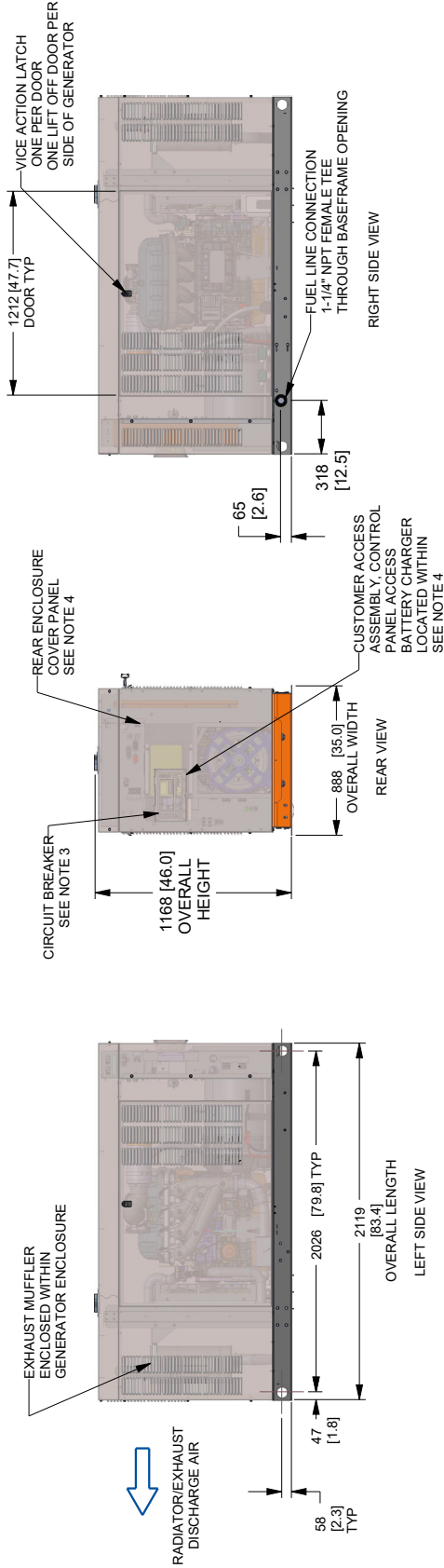


SERVICE ITEM	4.5L
OIL FILL CAP	LEFT SIDE
OIL DIP STICK	LEFT SIDE
OIL FILER	LEFT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	RIGHT SIDE
COOLANT RECOVERY BOTTLE	RIGHT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	LEFT SIDE
SPARK PLUGS	LEFT SIDE
MUFFLER	SEE NOTE 11
DRIVE BELT	EITHER SIDE
BATTERY	LEFT SIDE

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PARTS LIST

BATTERY 12V GROUP 27F NEGATIVE GROUND P/N G068665

- NOTES:
- MINIMUM RECOMMENDED CONCRETE PAD SIZE IS 6" OFFSET OF OVERALL LENGTH AND WIDTH OF GENERATOR. (1193.8 (47") WIDE X 2423.2 (95.4") LONG). REFERENCE INSTALLATION GUIDE SUPPLIED WITH THE UNIT FOR CONCRETE PAD GUIDELINES. REFERENCE MANUFACTURER'S SPECIFICATIONS IF USING ENGINEERED, PREFABRICATED SLABS.
 - ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
 - CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
- SEE SPECIFICATION SHEET OR OWNERS' MANUAL
- ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
 - REMOVE THE REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
- HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
- LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
 - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
 - CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
 - BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
 - REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 - MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
 - MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
 - GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.
 - EXHAUST MUFFLER ENCLOSED WITHIN GENERATOR ENCLOSURE. REMOVE FRONT PANEL TO ACCESS.

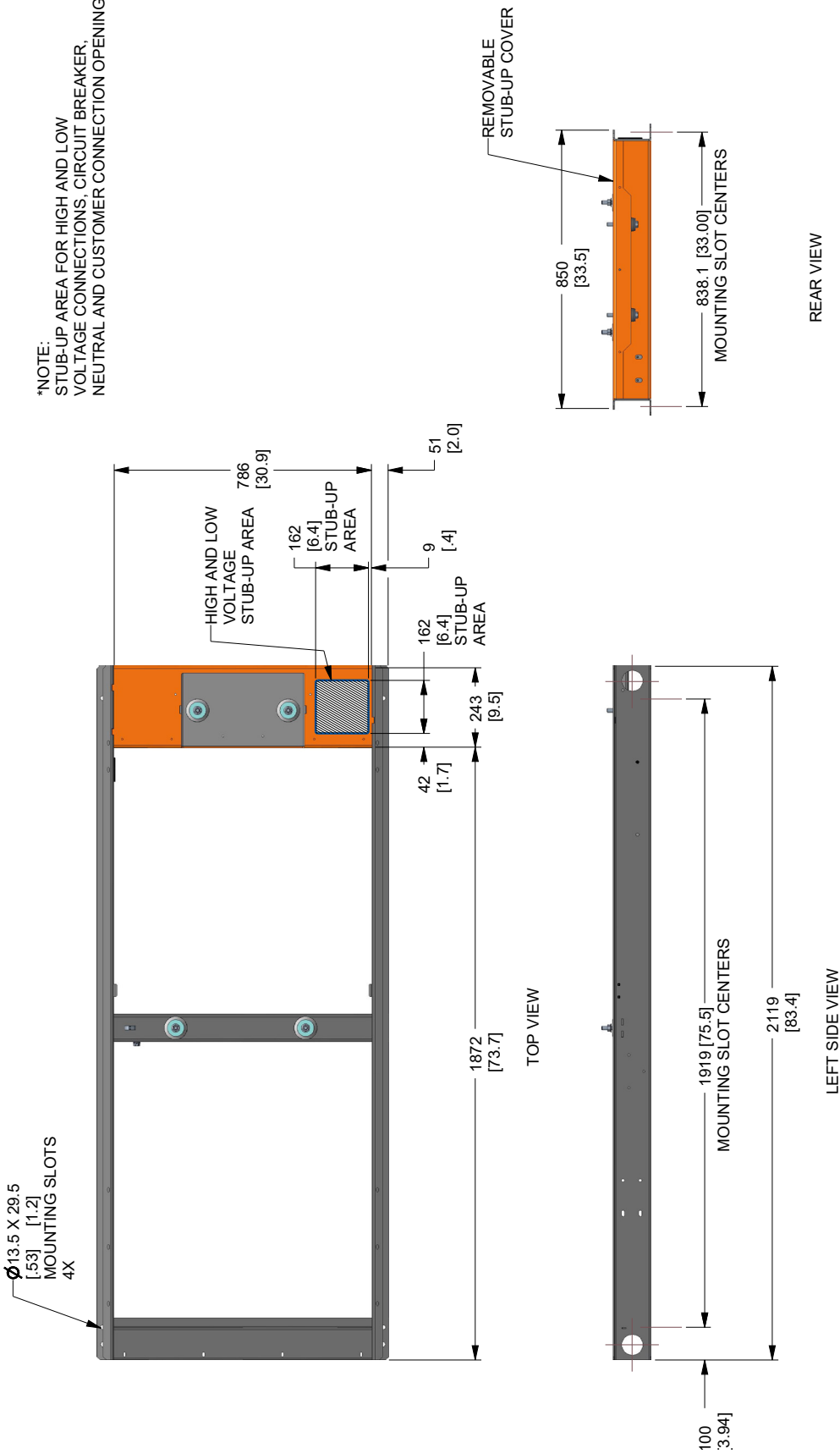


DIMENSIONS: MM [INCH]

48 kW Installation Layout

Drawing A0000293718 Rev B

*NOTE:
STUB-UP AREA FOR HIGH AND LOW
VOLTAGE CONNECTIONS, CIRCUIT BREAKER,
NEUTRAL AND CUSTOMER CONNECTION OPENING.



DIMENSIONS: MM [INCH]

48 kW Available Accessories

MODEL #	PRODUCT	DESCRIPTION
G007992-0	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. The cold weather kit consists of a battery warmer with thermostat built into the wrap.
G007990-0	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G006160-0	Touch-Up Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The touch-up paint kit includes the necessary paint to correctly maintain or touch-up a generator enclosure.
G007991-0	Scheduled Maintenance Kit	The liquid-cooled scheduled maintenance kit provides all the items necessary to perform complete routine maintenance on Honeywell liquid-cooled generators (oil not included).
G006664-0	Local Wireless Remote Monitor	Completely wireless and battery powered, the wireless remote monitor provides the user with instant status information without ever leaving the house.
G006665-0	Wireless Remote Monitor Extension Harness	Recommended for use with the wireless remote monitor on units up to 60 kW, required for use on units 70 kW or greater.
G007993-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
G007005-0	Wi-Fi LP Tank Fuel Level Monitor	The Wi-Fi enabled LP tank fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in verifying the generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify users when the LP tank is in need of a refill.
G006874-0 - 50 amps G007006-0 - 100 amps	Smart Management Module	Smart Management Modules (SMM) are used to optimize the performance of a standby generator. They manage large electrical loads upon startup and shed them to aid in recovery when overloaded. In many cases, using SMM's can reduce the overall size and cost of the system.
G007169-0	Mobile Link® 4G LTE Cellular Accessory	The Mobile Link 4G LTE Cellular Accessory allows users to monitor the status of the generator from anywhere in the world, using a smart phone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account with an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.
G006478-0	Harness Adapter Kit	The harness adapter kit is required to make liquid-cooled units compatible with Mobile Link® 4G LTE Cellular Accessory.

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