



RAISING PERFORMANCE
WITH THE PUSH OF A BUTTON

JB-40

The Tower Solutions JB-40 is a fully self-contained, deployable surveillance and communications platform engineered for the demands of military, federal, and agency operations. A high-capacity self-erecting tower deploys up to 40 feet in under three minutes, supporting payloads up to 600 lbs of mission-critical sensors and communications equipment. Onboard power generation, LiFePO₄ battery energy storage, and flexible fuel compatibility ensure continuous operation in the most austere environments, no external infrastructure required.



The JB-40 delivers
deployable intelligence
infrastructure, ready in
minutes, wherever the
mission demands

Go to towersolutionsinc.com
pinnaclegreenenergysolutions.com
for more information



SURVEILLANCE



COMMUNICATIONS



TACTICAL SUPPORT



LIGHTING

JB-40 SPECIFICATIONS

TRAILER PLATFORM

Overall Length	14-16 ft (4.3-4.9 m)
Overall Width	7 ft (2.1 m)
Overall Height	<7 ft (<2.1 m)
GVWR	6,500 lbs (2,948 kg)
Axle Configuration	Tandem Torsion

TOWER

Deployed Height (AGL) to payload center	16-40 ft (4.9-12.2 m)
Erection Time (stow to full deploy)	3 minutes
Wind Load Rating (deployed)	60 mph (97 km/h)
Top Payload Capacity	Up to 600 lbs (272 kg)
Cable Management to Payload	Configurable

POWER GENERATION

Generator Output — AC	5-20 kW, 240V Single-Phase
Generator Output — DC	24V
Generator Noise Level	60 dB
Generator Fuel Types	Diesel / Gas / LPG / H ₂
Fuel Tank Capacity	115 gal (435 L) (LPG tank / H ₂ cylinders not included)
Shore Power Input	Available
Solar Input	Available

POWER MANAGEMENT

Total Rack Capacity	50-100 RU
Customer Available Rack Space	25-75 RU
Power Storage Type	LiFePO ₄
Power Storage Capacity	200-1,600 Ah
Environmental Control	AC cooling, battery heaters, fuel heaters available

ENVIRONMENTAL

Operating Temperature Range	-20-125°F (-29-52°C)
IP Rating	IP65

COMPLIANCE

DOT Certified	
ITAR Classification	EAR99
Country of Origin	USA



Rapid Deployment - From road to fully operational in minutes. The JB-40's self-erecting tower requires no ground crew, no rigging, and no specialized tools, putting eyes on target faster than any fixed or semi-permanent alternative.



Versatile Power - Multi-fuel generation options, shore power, solar input, and up to 1,600 Ah of LiFePO₄ storage deliver uninterrupted power across extended missions. Whether grid-connected or fully off-grid, the JB-40 keeps critical systems running.



Mission-Configurable - Up to 75 rack units of customer-available space accommodate communications, computing, and sensor processing equipment in a fully climate-controlled, EMI-managed environment. Built to your mission, not someone else's.



Tower Solutions LLC | 2401 Pilot Knob Rd, Suite 124, Mendota Heights, MN 55120
www.towersolutionsinc.com (952) 906-5363 | sales@towersolutionsinc.com



PINNACLE
TELECOM
GROUP