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US ARMY NATICK SOLDIER RD&E CENTER

TECHNOLOGY DRIVEN. ***WARFIGHTER FOCUSED.***

US ARMY NSRDEC

COMMANDERS' SMARTBOOK EQUIPMENT CATALOG

The US Army Natick Soldier RD&E Center provides this widely distributed equipment catalog for information in obtaining urgently needed equipment and systems. Various items are highlighted in the areas of: Field Services; Shelters; Non-Powered Heaters; Powered Heaters; Generators and Powered Distribution Systems.

Our intent is to provide you with the best information in this pocket size catalog that you can carry along throughout your mission.

NSRDEC's diligent research and development efforts culminate in combat equipment that save lives, protect soldiers against battlefield threats and environmental hazards, and steadily elevate their quality of life to higher levels.

For additional information or to request copies please contact:

Smart Book Team POC:

DSN 256-4347, Comm: 508-233-4347

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Commanders' Smart Book Website:

nsrdec.natick.army.mil/media/print/Smartbook_Web.pdf

Revised:

August 2009

OPSEC 05-60

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POINTS OF CONTACT:

Field Services:

DSN 256-5257, (508) 233-5257

DSN 256-5543, (508) 233-5543

Shelters:

DSN 872-4686 X-331, (850) 882-4686 X-331

APM Shelter Systems: DSN 256-5637, (508) 233-5637

TACOM ILSC Shelters (Rigid): DSN 256-6088, (508) 233-6088

Defense Support Center Philadelphia – Base Camp

http://www.tentnet.org/tentnet/basecamp/

DSN 444-0388, (215) 737-0388

Non-Powered and Powered Heaters:

APM Shelter Systems: DSN 256-5637, (508) 233-5637

TACOM ILSC Powered Heaters: DSN 256-6088, (508) 233-6088

Generators & Power Distribution Systems:

DSN 654-3168, (703) 704-3168

US Army Natick Soldier RD&E Center Website:

http://nsrdec.natick.army.mil

Hot Line/Quick Reaction Coordinator:

DSN 256-5413, (508) 233-5413

Mobile Kitchen Trailer-Improvement (MKT-I)

Capabilities: Kit improves the performance and effectiveness of the MKT.

Description: Kit includes new fabric, cold weather skirt, lights, ventilation, griddle, floor mats, ice chest, and insulated food containers.

Power requirements: 120V AC, ~300kW

Size: N/A

Weight: N/A

Contractor: Penn Metals, PA

Cost: $10,000

Availability: Individual components available for acquisition.

Transportability: Tow w/ 2-½T cargo truck, fits on C-130

Supportability: TM 10-7360-206-13, Oct 2000

NSN: 7360-01-469-5482

POC: DSN 256-5543, (508) 233-5543

Food Sanitation Center (FSC)

Capabilities: Provides required sanitation to support field kitchen operations. Replaces immersion heaters and steel trash cans currently used to heat water.

Description: Consists of three sinks, stands and covers, burners, drain tables, work table, storage and drying racks and ancillary equipment. Uses sanitation method with three sinks of water maintained at different temperatures for successive cleaning, rinsing, and sanitizing pots, pans, and cooking utensils. System housed in 16'×20' TEMPER tent. One FSC supports two MKTs or one CK.

Power requirements: 120VAC when outfitted with MBU

Weight: 1,600 lbs

Cost: $18,000

Status/availability: Available standard supply system.

Transportability: 2-½ or 5 ton truck

Supportability: TM 10-7360-211-13&P

NSN: 7360-01-277-2558

POC: DSN 256-5540, (508) 233-5540

Containerized Shower (CS)

Capabilities: Provides a clean environment for soldiers to shower with privacy. Each shower stall has individual controls for adjusting water pressure and temperature. Allows 72 soldiers to shower per hour (10 minute shower). System capable of collecting waste water and can pump it up to 500’ for disposal/storage.

Description: 12 commercial, fiberglass shower stalls, onboard ejector pump, and M80 water heater.

Power requirements: 10kW, 120 Volt, single phase

Size (L×W×H): 20’×8’×8’ ISO Container

Weight: 8,500 lbs

Cost: $75,000

Availability: 180 day lead-time.

Transportability: Land, air or sea

NSN: 4540-01-470-1398

POC: DSN256-5540, (508) 233-4486

Small Unit Shower (SUS)

Capabilities: Lightweight, portable shower system provides shower support for small units in forward areas. Provides up to 24 showers per hour.

Description: Compact heating unit burns diesel or JP-8 fuels. Provides temperature controlled water at 95°-105° F. Air beam supported tent with four individual shower stalls provides privacy and controlled water drainage. Set up/tear down by two soldiers in 15 minutes.

Power requirements: 28VDC via NATO slave cable connection to vehicle.

Size (L×W×H):

Heater: 20”×13”×21”; Shelter: 8’×12’×7’ (setup); two bags (packed) 35”×29”×17” each.

Weight: 225 lbs

Cost: $14,700

Status/availability: CTA item (CTA 50-909), available through supply system.

NSN: 4510-01-409-0139

POC: DSN 256-5543, (508) 233-5543

Battlefield 12-Head Shower

Capabilities: Provides the capability for hot showers in the field at a rate of 72 showers (10 minute each) per hour.

Description: The 12-Head Shower consists of six 2-man shower stalls made of fiberglass bases with fabric secured over a framework of aluminum tubing. A combination of hose connections and a pump assembly water supply provides drainage for the shower facility. Hot water is provided by the diesel/JP8 fired M-80 water heater. Two 3-sink shave stands are also included. System packaged in 2 TRICON containers.

Power requirements: 5kW, 208 volts, 3 phase

Size (L×W×H): 20'×8'×7'

Weight: 2,000 lbs

Cost: $31,775 (includes shower, generator, M80 water heater)

Status/availability: Available through supply system.

NSN: 4510-01-163-6775

POC: DSN 256-5282, (508) 233- 5282

Containerized Self-Serve Laundry (CSSL)

Capabilities: Provides facility for soldiers to wash and dry personal laundry. Can service 120 soldiers per day.

Description: 6 stackable commercial washer/ dryer units mounted in a 20'×8'×8' ISO container. A tent is provided as folding and sorting area.

Power requirements: 30kW (Two-100 amp connectors)

Size (L×W×H): 20'×8'×8' ISO container w/ 8' TEMPER tent and connecting bootwall.

Weight: <10,000lbs

Cost: $75,000

Status/availability: 150 day lead-time; War Reserve Operational Project stock.

NSN: 3510-01-474-9035

POC: DSN 256-5540, (508) 233-4486

Containerized Chapel (CC)

Capabilities: Fully functional chapel providing religious needs to base camps of up to 550 soldiers.

Description: The CC is contained in one 20'×8'×8' ISO container which includes 64' of tentage, Two-ECUs, power generation/distribution, seating for 100, and religious supplies. Cold Weather Kit includes an Army Space Heater and a 5kW Generator.

Power requirements: 120/208 VAC 30 kW

Size(L×W×H): 20'×8'×8' ISO + 64' TEMPER Tent

Weight: 15,000 lbs (approx.)

Cost: $125,000 (approx.)

Status/availability: 1 year lead-time; War Reserve Operational Project stock.

NSN: 9925-01-481-5136

POC: DSN 256-5540, (508) 233-4486

Chaplaincy Logistical Support Package (CLSP)

Capabilities: Provides the capability for Unit Missionary Teams (UMT) to carry ecclesiastical supplies, administrative supplies, and computer hardware (not included) in a consolidated package anywhere they travel on the battlefield.

Description: Lightweight container which functions as a portable altar, work station, and storage for religious supplies.

Power requirements: None

Size (L×W×H): 30”×28”×20.5”

Weight: 80 lbs

Cost: $600 (approx.) (not including linens)

Status/availability: CTA item; 60 day lead-time.

NSN: 9925-01-479-5319

POC: DSN 256-5540, (508) 233-4486

Containerized Latrine (CL)

Capabilities: Provides latrine service for 150 soldiers with individual privacy and increased sanitation.

Description: Privacy stalls with six-low water flush toilets, a trough urinal, two-waste collection tanks, two-sinks w/running hot/cold water, one 6-gallon water heater, mirrors, and dispensers for toilet paper, paper towels and soap. Each stall has hooks and shelves. Heater/AC unit installed in the rear wall to regulate internal temperature and a fan is mounted on front wall to provide ventilation.

Power requirements: 10kW, 120/208 V, 50/60 Hz, 3 phase

Size(L×W×H): 20'×8'×8' ISO Container

Weight: <10,000 lbs

Cost: $55,000

Status/availability: 30 day lead-time; War Reserve Operational Project stock.

Transportability: Land, air or sea

NSN: 4540-01-477-7764

POC: DSN 256-5540, (508) 233-4486

SMART BOOK BUYER'S GUIDE:

General Purpose Shelters

1. Environmental threats:

A. Snow load of 10 lbs per sq. ft. for 12 hours without damage to the frame which causes failure

B. Driving rain of 2 inches per hour at 35 mph for 30 minutes

C. Withstand wind load of 55 mph, with gust to 65 mph

D. Operational at –60 to 120 degrees F

E. Openings for flue stack and ECU ducts

2. Detection threats:

A. Matt or dull finish to fabric and support systems

B. Fabric in colors of green, tan or white

C. Not observable at night with light inside 100M with naked eye/300M with night vision goggles

3. Safety:

A. Flame resistance/char length/melt drip to meet ASTM-D-6413

B. No toxic coatings

C. Meets human factors requirements for soldier lift (i.e. 37lbs each soldier)

4. Durability:

A. Withstand 50 cycles of erect & strike for one year

B. Sustainable with repair parts, manuals and logistical support

C. Capable of two years of continuous use

5. Other considerations:

A. Insect screens, door openings

B. Erected in all environmental conditions

C. Transportable on 463L pallet and by C-130, cargo HMMWV, FMTV & LMTV

D. Spare & repair parts available thru supply system

SMART BOOK BUYER'S GUIDE (cont'd):

Small Shelters

1. Environmental threats:

A. Minimum of 15 sq ft per person

B. Integral tub floor

C. Include a fly and free standing vestibule

D. One front/one rear entry on tent and fly

E. Operational at –60 to 125 degrees F

F. Withstand wind loads of 50 mph, with gusts to 65 mph

G. Driving rain load of 35 mph at 2 inches per hour

H. Snow load of 4 lbs per sq ft.

2. Safety:

A. Flame resistance/char length/melt drip to meet ASTM-D-6413

3. Durability:

A. Repair kit

B. Sustainable with spare parts, repair parts and technical manuals from the Standard Army Retail Supply System (SARSS)

The Tentage Super Store

With links to a comparison table of military standard shelters, new Army shelters, Army heaters and field service equipment.

Additional links are provided to Resource Handbooks for shelters, accessories, support parts, shelter links, U.S. DOD Defense Links and Industrial Base Links.

http://www.tentnet.org/tentnet/basecamp/

Fabric Structures Group Prototyping Capabilities

The Fabric Structures Team Prototype Shop is a fully staffed design and fabrication unit located at the U.S. Army Natick Soldier RD&E Center. It can produce prototypes and undertake small production runs of shelters and shelter components.

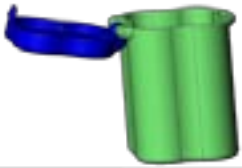
- Industry standard sewing capabilities
- Heat sealing and tape sealing utilizing hot air & hot wedge
- RF Sealing
- Full prototyping capabilities from design through finished drawings
- Augmented by metal prototyping shop, rain room, environmental chambers, camouflage detection room and fabric testing facilities
- Staffed by 4 senior equipment specialists and 3 equipment specialists
- Over 75 years of combined experience in military shelters
- Small production facility meets the individual customers requirements with minimal paperwork but time sensitive
- Customers include: USMC, USAF, Force Provider, 1st SFG, 201st MI Project Manger Soldier Support, Defense Support Center Philadelphia

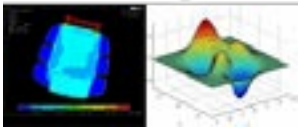
POC: DSN 256-5243,
(508) 233-5243

Design, Engineering & Fabrication Team (DEFT)

The Design, Engineering & Fabrication Team combines Computer Aided Design (CAD), finite element analysis, rapid prototyping, and custom physical testing with a full service mechanical prototype, integration and production capability. With state-of-the-art equipment and experienced personnel, the facility produces high quality prototypes, integrated systems and small production runs of equipment and systems for the Soldier.

DEFT conducts shelter integration work, modifying non-expandable, expandable and trailer mounted shelters; installing wiring, lights, panels, electric power, storage racks, custom components and doorways to suit customers' needs.





DEFT also fabricates and modifies custom designed shelter-based kitchens and other facilities. DEFT works with the Fabric Structures prototyping capability to produce prototypes and end items requiring both fabric and non-fabric components.

Capabilities Include:

- Shelter Modification & Refurbishment
- Shelter Integration
- Custom Prototyping
- Rapid Prototyping
- Limited Production
- Fabrication and Assembly Shop
- Full Machine Shop
- Load Testing
- Salt Fog Testing
- Custom Test Design & Setup
- Finite Element Analysis

POC: DSN 256-4271, (508) 233-4271

Soldier Crew Tent

Capabilities: The SCT was originally developed to provide environmental protection for billeting of combat vehicle crews. The SCT's popularity is promoting a change in the authorization of units in need of billeting for small unit elements.

Description: The SCT is a lightweight, durable, single frame, single hub tent. The tent body is suspended from the frame in a canopy style. An over-cover lies on top of the frame to provide an air gap for added insulation. Two reversible over-covers are available in green/tan or green/white configurations. A cold weather cotton liner is also provided. Houses up to 5 soldiers comfortably with 120 square feet floor space. Erect/strike is accomplished in less than 5 minutes. A storage/transport cover is included as well as a field repair kit. A 4" stovepipe opening is included for use with standard military heaters.

Size (L×W×H): 11' × 11' × 53"

Weight: 75 lbs

Cost: $1784

Status/availability: CTA 50-909 item, available thru DLA

Transportability: All traditional modes

Supportability: TM 10-8340-227-13&P

NSN: Type I (green/tan) 8340-01-359-0084
Type II (green/white) 8340-01-359-1481

POC:

- APM Shelter Systems, DSN 256-637, (508) 233-5637
- DSCP – http://www.tentnet.org/tentnet/basecamp/
  DSN 444-0388, (215) 737-0388

Modular Command Post System

Capabilities: Provides a highly mobile, modular tent system that complexes into many configurations for a variety of missions including Command Posts, Tactical Operation Centers (TOCs), administration, billeting, supply, medical and maintenance facilities.

Description: The MCPS is lightweight aluminum frame supported tent with coated polyester blackout fabric. Each MCPS includes a flame resistant lightweight internal liner, two 40-Watt fluorescent light fixtures, two field tables, four plywood mapboard panels, and 121 square feet of uninterrupted floor space. Erect/strike is accomplished by two soldiers in 20 minutes. An optional fabric bootwall kit is available allowing the MCPS to connect directly to tracked and wheeled vehicles.

Power requirements: None; electrical feed throughs are provided to accept external power sources.

Size (LxWxH): 11' × 11' × 7'-9' (eave to peak)

Weight: 595 lbs

Cost: $4727 (green)

Status/availability: CTA 50-909 item, available thru DLA

Transportability: Air, land and sea

Supportability: TM 10-8340-223-13&P

NSN: Green 8340-01-323-2454 / Tan 8340-01-334-7529

POC: DSCP – http://www.tentnet.org/tentnet/basecamp/
DSN 444-0388, (215) 737-0388

Modular General Purpose Tent System

Capabilities: Provides a multipurpose, modular, weatherproof shelter that improves upon the General Purpose (GP) Small, Medium and Large tents in the areas of habitability, weight, erect/strike time, supportability, durability, mobility, and versatility.

Description: MGPTS is a larger, modular, pole supported tent with vinyl-coated polyester fabric that is a more versatile and habitable replacement of the old GP Small, Medium, & Large tents.

Power requirements: None; electrical feed-throughs are provided to accept external power sources.

Size (L×W×H):

Small 18' × 18' × 11.5' (7' H sidewall)

Medium 36' × 18' × 11.5' (7' H sidewall)

Large 54' × 18' × 11.5' (7' H sidewall)

Weight: Small 470 lbs; Med 795 lbs; Large 1107 lbs

Cost: Small $3522; Med $5546; Large $7911 (all tan)

Status/availability: CTA 50-909 item, available thru DLA

Transportability: Air, land and sea

Supportability: TM 10-8340-240-12&P

NSN: Small 8340-01-456-3633 (green)/8340-01-491-1507 (tan)

Medium 8340-01-456-3628 (green)/8340-01-491-1515 (tan)

Large 8340-01-456-3674 (green)/8340-01-491-1479 (tan)

POC:

- APM Shelter Systems, DSN 256-5637, (508) 233-5637
- DSCP – http://www.tentnet.org/tentnet/basecamp/
  DSN 444-0388, (215) 737-0388

US Air Force Small Shelter System

- Modified Commercial
- 650 sq ft Billeting (20 × 32 ft)
- 30% System Airlift Reduction
- Erects in less than 30 minutes with 4 people
- 100 mph wind/15 psf snow load (65/10)
- HVAC – 3.5 ton ATS
- Twenty-year storage life
- Highly ruggedized

Cost: $14k - $25k (w/HAC)

Contract awarded to Alaska Industrial Resources, Inc. Now on GSA Schedule

POC: (850) 882-4686 x331

US Air Force Expeditionary Medical Support

- Reconfigured Small Shelter System
- 1100 lbs
- Erects in less than 30 minutes
- 100 mph wind/15 psf snow load (65/10)
- Compatible with existing shelters
- Twenty year storage life
- Connectability offers unlimited layout
- Vestibules and extensions
- Bright, spacious, interior
- Surgery suite
- Positive pressure keeps contaminants out of OR
- Highly ruggedized

"Urgent and Compelling" Contract Modification to SSS Contract for 102 shelters ($2.4M) in FY 00. Now on GSA Schedule.

POC: (850) 882-4686 x331

Lightweight Maintenance Enclosure

Capabilities: Provides the environmental protection capability to have a light-weight, mobile repair shelter for tracked and wheeled vehicles across the battlefield under all climatic conditions.

Description: Vinyl-coated polyester fabric panels and aluminum components and assemblies, power distribution box and four fluorescent lights.

Power requirements: Power distribution box provided, 70 Amp/120VAC

Size(LxWxH): 32' × 24' × 13.5'; Door opening 15' ridge

Weight: 1,400 lbs

Cost: $16,397

Availability: MTOE item. Spare parts available through DSCP.

Transportability: Air, land and sea methods

Supportability: Standard Army Retail Supply System and Standard Army Maintenance System, TM 10-5410-284-13&P

NSN: 8340-01-456-3637 (green), 8340-01-507-4375 (tan)

POC:

- APM Shelter Systems, DSN 256-5637, (508) 233-5637
- DSCP – http://www.tentnet.org/tentnet/basecamp/
  DSN 444-0388, (215) 737-0388

US Air Force Medium Shelter System (MSS)

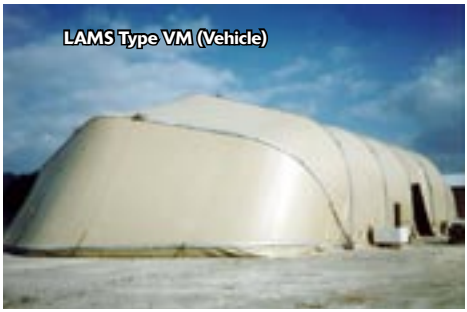
- Modified Commercial 1500 sq ft storage, maintenance, and recreation shelter.
- 29.5' wide × 52' long × 15' high
- 11' w × 10.5' h vehicle doors on each end
- 66% airlift reduction over AF GP shelter
- Erects in under 4 hours (75% reduction)
- USAF tested: -55° F to 125° F
- 100 mph wind/20 psf snow load
- Twenty year storage life
- Highly ruggedized
- Entire MSS packs and ships in single container
- Two MSS containers ship on one 463L pallet

Cost: $65K

Contract awarded to California Industrial Facilities Resources, Inc.

POC: (478) 222-1632

Large Area Maintenance Shelters



Capabilities: Large area maintenance and repair shelter for helicopters tanks, wheeled vehicles.

Description: Both versions are constructed of vinyl coated polyester fabric panels that lock into aluminum beams.

Power Requirements: Both come with lights, power distribution boxes and exhaust fans. Require 120/208 Volt, three phase 60 Hz.

Size:

- Type AM – 75 ft wide × 190 ft long × 30 ft high
- Type VM – 65 ft wide × 120 ft long × 30 ft high

Manufacturer:

- AM: Clamshell
- VM: Canvas Specialties

Availability: War Reserve Stock — DA Approval Required with setup and striking charges applicable.

Transportability: Both transportable in two ISO Containers

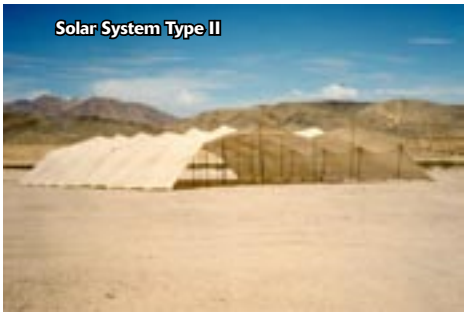
Supportability: Contractor Support

NSN:

- AM: 5410-01-334-31
- VM: 5410-01-333-9299

POCs: DSN 256-6439, (508) 233-6439 or
DSN 256-5829, (508) 233-5829

Solar System



Purpose/Use: Provide solar protection of munitions, vehicles, equipment, and personnel

Description:

- This is a new complete system that includes: (fly/cover, poles, stakes, rope, repair kit)
- Lightweight fabric, open weave material
- Complexible/modular to cover multiple shapes and sizes
- Pole supported: (aluminum, telescoping)
- Reduces solar effects by 50 to 60%
- Vehicle drive through capability
- Floor area Type I: 892 sq. ft.
- Floor area Type II: 2000 sq. ft.

Erection: Type I: Two Soldiers – 30 minutes / Type II: Two Soldiers – one hour

Size: Type I: 35ft × 35ft / Type II: 50ft × 50ft

Price: Type I: $1,577.00 / Type II: $2,727.00

NSNs: Type I: 5410-01-519-7041 / Type II: 5410-01-519-7185

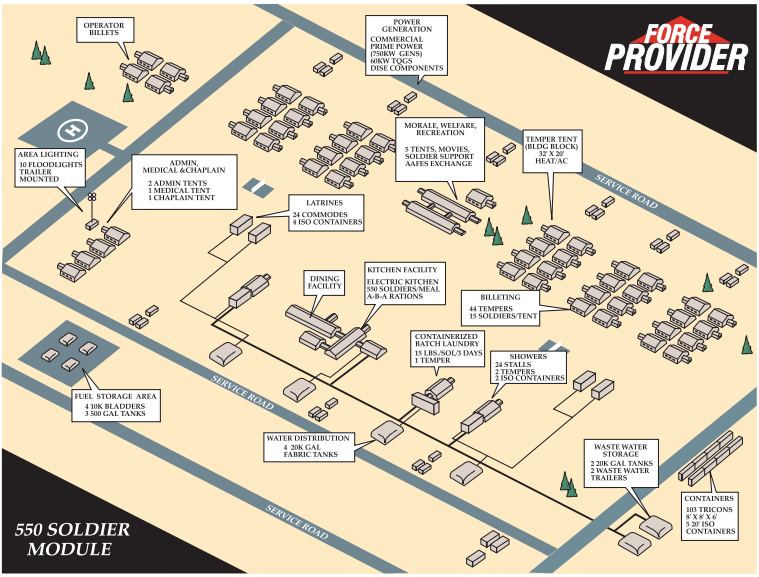
Availability: Procure with funded requisitions through normal DoD supply system.

Static electricity warning: Solar Shade Systems ARE NOT for use with loose ammunition or in fuel handling areas.

POCs:

- DSCP – http://www.tentnet.org/tentnet/basecamp/
- **For information on price/purchase:**
  DLA - https://www.webflis.dlis.dla.mil/WEBFLIS/ASPscripts/pub_search.aspx
- **For non ordering/technical information please contact:**
  Shelter Liaison, 508-233-4347

Force Provider



Force Provider is the Army's Premier Base Camp. The Force Provider concept was born in 1991 as a result of inadequate living conditions for our soldiers during Desert Shield/Storm. General Sullivan, CSA, directed the development of a containerized, highly deployable "city".

Force Provider is a compilation of existing military and commercial products: containing all the equipment necessary to provide climate-controlled billeting, quality food and dining facilities, hygiene services and MWR facilities to support 550 personnel and 50 operators. The basic building block is the Tent Extendable Modular Personnel (TEMPER) Tent, each equipped with a heating and air conditioning unit. Force Provider comes complete with water and fuel storage, power generation and distribution systems, and waste water collection.

The system is containerized and preconfigured, facilitating movement by any combination of land, air and sea. Missions for Force Provider include rest and refit, theater reception, intermediate staging base, re-deployment and base camps for other military operations such as peacekeeping missions. A typical camp requires approximately 10 acres of land. The site preparation takes approximately 3 to 4 days with the entire camp fully operational in 14 days or less. Force Provider has provided high quality living conditions in Guatemala, Honduras, Haiti, Guantanamo Bay and Bosnia. The APM Force Provider Office is currently working on modernization plans, to increase the efficiency of the base camp while decreasing operation and maintenance costs.

Each Module Supports 550 personnel (+50 operators) with:

- Climate Controlled Billeting — TEMPER (15 soldiers per tent)
- Quality Food Service (1800 meals/day "A" rations)

Force Provider (cont'd)

- Laundry Service (200 lbs hour)
- Showers & Latrines (one 10 minute shower/ day)
- Morale, Welfare and Recreation Facilities and Equipment
- Power, 60 kW TQGs (1.1 MW Continuous) or Prime Power Support
- Water Storage & Distribution (80K gals/3 days)
- Fuel Storage & Distribution (20K gals/3 days)
- Waste Water Collection (30K gals/day)
- System Support Packages — 30 days spare & repair parts
- Transportable — air, rail, land, sea (containerized) 103 TRICONs, 3 ISOs and rolling stock

POC:

- DSN 256-4486, (508) 233-4486
- APM Shelter Systems & Force Provider
  DSN 256-5637, (508) 233-5257

Forward Operation Base System - BareBase Command and Control Module

Capabilities: This is a 3600 square foot complex designed to provide work and living space for 30 soldiers. It is a complete system and includes shelters, floors, liners, vestibules, tables, mapboards, chairs, lighting, DISE box, power panels, an electrical distribution system and cots. An Early Entry 10 soldier Jump TOC may be segmented from the system to support advanced parties.

Description: The main building blocks are the Modular General Purpose Tent System (MGPTS), command post components from the Modular Command Post System (MCPS), TEMPER tent vestibules and commercial components from the construction industry. About 90% of the C2-MOD components are type classified and all are fully supportable. It can be configured in multiple ways and includes a "Commanders Play Book". The Play Book allows the brigade command staff to lay out the system on a felt diagram using velcro replicas of the basic shelter components. We are also working on bootwalls to interconnect shelters to vehicles.

Power requirements: Supplied with a 100A DISE Box which feeds five – 50A 1ph Power Distribution Panels (PDP). Each PDP provides six 20A GFI protected circuits. A secondary power distribution system provides a 20A triplex outlet at 9' O.C.

Size: 3600 sq feet

Weight: Approx. 8500 lbs

Cost: $125k

Availability: 90 days from receipt of MIRP

Transportability: May be transported in one - 20' MILVAN or three - ISU-90 Containers. In this configuration it takes three C-130 pallet spaces. May also be packed on three-Cargo HMMWVs and two-M101 Trailers. Equals one C-141 load with vehicles.

NSN: Various NSNs

POC: DSN 256-5257, (508) 233-5257

Early Entry LSE System (EELS) Command Post

Capabilities: This is a 1032 square foot command post complex designed to provide workspace for 20 soldiers (MGPTS Medium) plus a conference area or Commander's Office (MGPTS Small). It is a complete system and includes shelters, floors, vestibules, tables, mapboards, chairs, lighting, DISE box, power panels, an electrical distribution system and deployment bags. It is supplied with an 648 sq. ft. MGPTS based billeting wing, electrical, lighting and standard cots. Each wing sleeps 14 -16 soldiers.

Description: The Bare Base EELS is a subset of the C2 Module (C2-MOD). The main building blocks for the EELS are the Modular General Purpose Tent System (MGPTS), command post components from the Standard Integrated Command Post System (SICPS), TEMPER tent vestibules and commercial components from the construction industry. About 90% of the EELS components are type classified and all are fully supportable. The EELS has add on environmental kits that include an air distribution system, the Field Deployable Environmental Control Unit, (FDECU) and solar covers for passive cooling. EELS may also be ordered with additional billeting wings.

Power requirements: Supplied with a 200A DISE Box which feeds three-50 A 3 ph Power Distribution Panels (PDP). Each PDP provides six-20 A (4 GFI protected) circuits. A secondary power distribution system provides a 15 A triplex outlet at 9' O.C.

Size: 1,680 sq ft

Weight: 11,140 lbs (approx.)

Cost: $128,000 with 3 FDECUs and 1 Billeting Wing

Available: 90 days from receipt of MIPR

Transportability: Is packaged in 2 ISU 90 Containers.

NSN: various - see separate sheet

POC: DSN 256-5243, (508) 233-5243

EELS Desert Style w/ Solar Covers
Solar Covers Will Provide Passive Cooling

Large Integrated Command Post System (LICPS)

Characteristics:

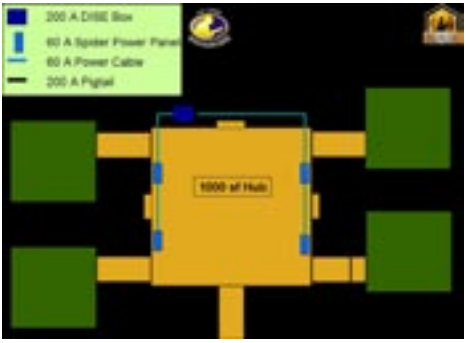
- 1000 sf. Floor Space Main Hub
- 30 ft. Wide × 33 ft. Long
- Utilizes Modified AF Shelter Platform
- Plus 1000 sf. Wings (4-Frame Tents)
- Integrated with Tables, Mapboards, Chairs, Lighting, Electrical System
- 463 L Compatible
- Can Link to Six Other Shelters
- Links with TEMPER Vestibule Ring
- TEMPER Tents
- Modular GP Tent System
- SICPS Bootwalls with Interface

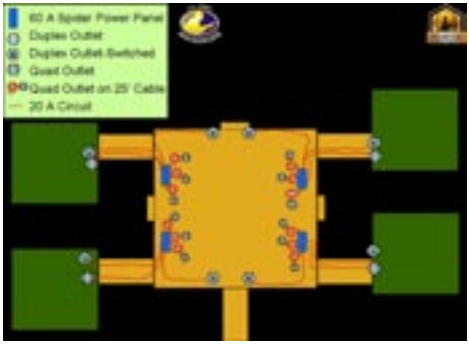
Estimated cost: $150,000

Includes: CONUS Shipping &Training Team

POC: DSN 256-5257, (508) 233-5257

LICPS with Optional Solar Covers Over Wings





Family of Cargo Bed Covers

Capabilities: The Family of Cargo Bed Covers (CBC) replaces existing "Built-Up" structures in the field with a standard item. The CBC protects, stores and secures equipment, tools and pilferable items/supplies while being transported on tactical wheeled vehicles. The CBC does not diminish mobility requirements of its carrier.

Description: Each CBC is a lightweight rigid enclosure that is easily mountable to its designed carrier. There are four CBC types:

- Type I (HMMWV);
- Type II (1-1/2T Trailer);
- Type III (2-1/2T Truck/LMTV);
- Type IV (5T Truck/MTV)

Type III/IV CBCs are height reducible for internal aircraft (C-130,C-141) transport.

TYPE	NSN	COST	TM
Type IAI Camo	5411-01-548-5065	$10755	10-5411-231-13&P
Type IIAI Camo	5411-01-548-5067	$9646	10-5411-232-13&P
Type IIIAI Camo	5411-01-559-8740	$34110	10-5411-233-13&P
Type IVAI Camo	5411-01-559-8738	$24504	10-5411-234-13&P
Type IAI Sand	5411-01-548-5067	10070	10-5411-231-13&P
Type IIAI Sand	5411-01-548-5069	8937	10-5411-232-13&P
Type IIIAI Sand	5411-01-559-8379	42638	10-5411-233-13&P
Type IVAI Sand	5411-01-559-8741	36757	10-5411-234-13&P

Power requirements: None, electrical cable port provided to accept external power sources.

Size: Sized to fit on carrier bed of truck and trailer

Weight: Ranges 425 lbs to 760 lbs depending on type

Status/availability: CTA items. All types available now thru TACOM ILSC.

Transportability: Sea, land and external/internal air

Supportability: Standard Army Systems

POC:

- APM Shelter Systems, DSN 256-5637, (508) 233-5637
- TACOM ILSC, 256-6088, (508) 233-6088

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Space Heater Arctic

Capabilities: Provides heated air (radiant and natural convective) to safely and efficiently warm soldiers operating in basic cold, and extreme cold environments. Replaces antiquated, gasoline burning M-50 Yukon Heater.

Description: SHA is a lightweight, portable, multi-fueled, non-powered heater intended to heat five and ten man arctic tents. Provides a maximum heat output of 28K BTU with a high/low adjustment capability. Burns liquid and solid fuels.

Power requirements: None

Size (L×W×H): 17" × 9" × 17"

Weight: 41 lbs

Cost: $1,018.51

Status/availability: CTA 50-909 item, available thru DLA

NSN: 4520-01-444-2375

TM: 9-4520-261-12&P

POC: APM Shelter Systems: DSN 256-5637, (508) 233-5637

Space Heater - Small

Capabilities: Provides heated air to safely and efficiently warm soldiers operating in basic cold, and extreme cold environments. Provides new capability for heating smaller tents (4 man or smaller).

Description: SHS is a lightweight, portable, multi-fueled, non-powered heater intended to heat the 4-man Soldier Crew Tent. Provides a maximum heat output of 12K BTU with a high/low adjustment capability. Burns liquid fuels. Integral fuel tank eliminates need for fuel can, fuel can stand, gravity feed adapter, hoses and fittings.

Power requirements: None

Size (L×W×H): 16" × 9" × 14"

Weight: 32 lbs

Cost: $720

Status/availability: CTA 50-909 item, available thru DLA

NSN: 4520-01-478-9207

TM: 9-4520-263-12&P

POC:

- DSCP Item Manager: DSN: 444-4709, (215) 737-4709
- APM Shelter Systems: DSN 256-5637, (508) 233-5637

Space Heater - Radiant Large (H-45)

Capabilities: Provides heated air to safely and efficiently warm soldiers operating in basic cold, and extreme cold environments. Replaces antiquated M-41 heater that had severe operational and safety deficiencies.

Description: H-45 space heater is a 45k BTU heater intended to heat the General Purpose and TEMPER tents. Operates without use of electrical power; burns liquid and solid fuels.

Power requirements: None

Size (L×W×H): 18"D × 24"H

Weight: 65 lbs.

Cost: $760

Status/availability: CTA 50-909 item, available thru DLA

NSN: 4520-01-329-3451

TM: 9-4520-257-12&P

POC:

- DSCP Item Manager: DSN: 444-4709, (215) 737-4709
- APM Shelter Systems: DSN 256-5637, (508) 233-5637

Space Heater Convective 35K & 60K

Capabilities: 35k BTU (or 60K BTU) thermoelectric heater provides forced hot air circulation for shelters without a generator. This heater generates its own power and recharges its battery. Automatic start and temperature controls.

Description: Delivers clean, breathable heat to Modular Command Post System, tents and TOCs. Converts waste heat into electrical energy, which is used to power the blowers, pumps, ignition system, safety system, and control devices, and recharges its own starting battery.

Power requirements: None

Size (L×W×H): 40" × 14" × 18" (35K), 48" × 17" × 19-¼" (60K)

Weight: 74 lbs (35K), 98 lbs (60K)

Cost: $7,380.98 (35K), $10,107.00 (60K)

Status/availability: CTA 50-909 item, available thru DLA

NSN: 4520-01-431-8927 (35K), 4520-01-520-6477 (60K)

TM: 10-4520-262-12&P (35K), 10-4520-264-12&P (60K)

POC:

- DSCP Item Manager: DSN: 444-4709, (215) 737-4709
- APM Shelter Systems: DSN 256-5637, (508) 233-5637

Thermoelectric Fan

Capabilities: Circulates heated air inside all military tents to improve habitability conditions and significantly reduce fuel usage by generating its own electrical power.

Description: TEF is a silent, compact, rugged fan unit placed on top of any military tent heater. A built-in thermoelectric module converts heat from the top surface of the heater into electricity to power the TEF. The TEF distributes heated air throughout the entire shelter.

Power requirements: None

Size (L×W×H): 14"D × 10"H

Weight: 12 lbs

Cost: $715

Status/availability: CTA 50-909 item, available now thru DLA.

NSN: 4520-01-457-2790

POC:

- DSCP Item Manager: DSN: 444-4709, (215) 737-4709
- APM Shelter Systems: DSN 256-5637, (508) 233-5637

Modern Burner Unit

Capabilities: Provides food service personnel the ability to safely and efficiently operate the field kitchens on battlefield fuels (JP-8).

Description: Direct replacement for the M2 Burner, push button operation, lights in place with electronic ignition, fuels in place, operational in environments from –25°F to 125°F.

Power requirements: 24VDC, 2kW generator set for MKT

Size (L×W×H): 23" × 19" × 9.75" (same as M2 burner)

Weight: 39 lbs empty, 54 lbs fully fueled

Cost: $1,400 (burner), cost of 6 MBUs with installation kit to outfit a Mobile Kitchen Trailer ~$15k .

Status/availability: Currently being produced and fielded through FY07, IAW DAMPL.

Transportability: Transported inside kitchen.

Supportability: TM 9-6115-673-13&P

NSN: 7310-01-452-8137

POC: DSN 256-5543, (508) 233-5543

Improved Army Space Heater

Capability: 140K BTU/hr, 1000cfm air flow. Automatic remote or manually controlled heat for shelters, vans, and other enclosed areas. Connects with flexible ducts.

Description: Pressurized enclosure can be hardened against NBC environments. 4-person carry. Retractable wheels, skids for use on snow. Power consumption (115V, 50-60 Hz, 1-phase, 10 Amp) less than 1200 Watts. Damper adjustable for fresh air input. Remote fuel tank hose provided; will operate up to 10 ft. above fuel supply. Can be stacked in pairs for storage/transport.

Noise: 60dBA@ 1 meter. Operates as recirculating heater or ventilator.

Manufacturer: Choctaw Manufacturing & Development Corp., McAlester, OK

Fuel: JP8 and all diesel. Operates unattended 14 hrs on 15-gal. tank

Size: 32" × 40" × 50" (37.9 ft^3)

Cost: $16,070 (actual contract cost, 1 ea.)

Weight (lb): 355

Availability: IASH is currently available as Class III (ABA Code 5) item for MTDE authorized Army units. Field units can order IASH by sending requisitions to the TACOM ILSC, Natick, MA.

NSN: 4520-01-477-0568

LIN: H00586

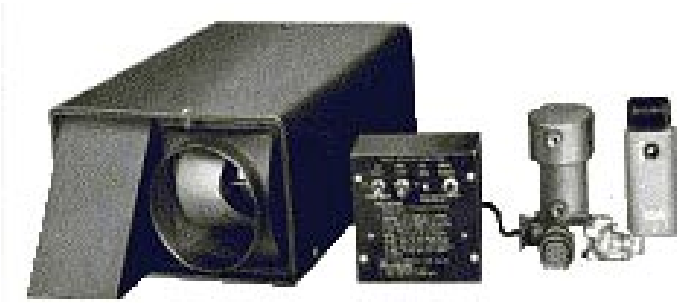
TM: 9-4250-271-14

Supportability: Class VII item

POC:

- DSCP Item Manager: DSN: 444-4709, (215) 737-4709
- APM Shelter Systems: DSN 256-5637, (508) 233-5637

Multifuel Space Heater, 15,000 BTU



Capability: 15 K BTU heater, 115 cfm air flow, for small/mobile shelters. Allows for use of fan without heat.

Description: Heats or ventilates truck-mounted shelters, cargo bodies, mobile tool sheds. Weatherproof; can be mounted outside. Includes control panel, thermostat, fuel pump & filter, wiring harness. Requires 10 Amp@28VDC (from vehicle). Designed for Canadian DND.

Manufacturer: HDT Tactical Systems, Solon OH, 440-248- 6111; sales@hunterheater.com

Fuel: Diesel 1, 2, A; JP-8

Size: 7" × 11" × 15"; 0.7 ft^3

Weight (lb): 26

Cost: $2,500 (small quantity price)

Availability: 210 days; not available from stock. IMPACT card item.

Supportability: Manufacturer.

NSN: 4520-21-871-7999

POC: Not managed by any DoD entity. Part of Reverse Osmosis Water Purification Unit (mfg. By Keco)

Multifuel Space Heater, 30,000 BTU

Capability: 30 KBTU heater, 300 cfm air flow, for small/mobile shelters, truck bodies. Allows for use of fan without heat.

Description: Heats or ventilates truck-mounted shelters, cargo carriers, troop transports. Weatherproof; can be mounted outside. Includes control panel, thermostat, fuel pump & filter, wiring harness. Requires 12 Amp@28VDC (from vehicle). Designed for Canadian DND.

Manufacturer: HDT Tactical Systems, Solon OH, 440-248-6111; sales@hunterheater.com

Fuel: Diesel 1, 2, A; JP-8

Size: 12" × 14" × 19" (w/ intake hood); 1.8 ft^3

Weight (lbs): 47

Cost: $3,000 (small quantity price)

Availability: 210 day lead time; not currently in production. IMPACT card item.

Supportability: Manufacturer.

NSN: 4520-21-885-3958

POC: Manufacturer. Not currently part of US DoD inventory.

Multifuel Space Heater, 60,000 BTU

Capability: 60 KBTU heater, 725 cfm air flow, for vehicle bodies, mobile shelters. Allows for use of fan without heat.

Description: Heats or ventilates mobile shelters, van bodies and expandable vans, system support vehicles mobile shelters. Controls may be mounted remotely or on unit. Can be ordered with air discharge direction up, down, or sideways. Uses fresh or recirculated air. Includes control panel, thermostat, electrical connectors for main power, fuel pump, thermostat. Requires 4.2 Amp@120VAC.

Manufacturer: HDT Tactical Systems, Solon OH, 440-248-6111; sales@hunterheater.com

Fuel: Diesel 1, 2, A; JP-8

Size: 22" × 10" × 26"; 3.3 ft^3

Weight (lbs): 110

Cost: $3,000 (small quantity price)

Availability: 210-day lead time, not in current production. IMPAC card item.

Supportability: Spare parts managed out of Defense Supply Columbus

NSN: 4520-01-203-4410

POC: (732) 532-6052

Military Hot Water Heater – HW30

Capability: 30 KBTU, 175-300 cfm air flow. Blower and outlet may be configured in several variations to fit many applications. Versions of this heater are standard on 2-½ ton and 5 ton trucks.

Description: Uses hot water from vehicle engine to heat vehicle cabs, small bodies, and the HMMWV. Requires 28VDC power. Mounting brackets, duct adapters, core tubes configured to suit customer needs.

Manufacturer: Hunter Manufacturing Co., Solon OH, 440-248-6111; sales@hunterheater.com

Fuel: No fuel needed. Uses electrical power and hot water from vehicle.

Size: 10" × 10" × 20" ; 1.2 ft^3

Weight (lbs): 20

Cost: $250 (small quantity price). IMPAC item.

Availability: In stock.

Supportability: Parts available, DSC or manufacturer.

NSN: 2540-00-020-8591

POC: Defense Supply Columbus

2kW Military Tactical Generator

Capability: Choice of DC or AC power for Missile Air Defense systems, mobile kitchens, combat support and communications systems. 4-soldier portable, operable in chemical/arctic clothing.

Description: 2kW output: 28 VDC, 2 wire OR 120VAC, 60Hz, 1 phase, 2 wire. Skid mounted. Noise: 79 dBA @ 7 meters.

Manufacturer: Dewey Electronics Corporation (201) 337-4700; dewey@deweyelectronics.com. Alt. Source: Mechron Energy Systems (Ontario), (613) 733-3855; mktg@mechron.com

Fuel: Diesel 1&2, JP-8, Jet A-1. Fuel capacity 1.6 gal.

Size: 30" × 16" × 22"; 6 ft^3

Weight (lbs): DC: 138 (wet), 124 (dry) / AC: 158 (wet), 140 (dry)

Cost: DC: $4,572 (DC) / AC: $5,262 (AC)

Supportability: Class VII item.

NSN: DC: 6115-01-435-1567 / AC: 6115-01-435-1565

POC: DSN 654-3168, (703) 704-3168

5kW Tactical Quiet Generator

Capability: AC power for weapons and missile systems, causeway systems, C4I systems; choice of 60Hz or 400Hz

Description:

- 5kW output: 60 Hz or 400 Hz -120VAC, 1 phase, 2 wire; 120/240VAC, 1 phase, 3 wire; 120/208VAC 3 phase, 4 wire.
- Noise: 70 dBA @7 meters.
- 60-Hz model available skid-mounted (single) or as power unit, power plant on 3/4 –T trailer, or power plant on 1.5-T trailer.
- Power unit and plants come with accessory box, switch box, and fire extinguisher.

Manufacturer: Fermont, 203-366-5211, fermont@engineeredsupport.com

Size: Skid-mounted single unit: 50" × 32" × 36".

Fuel: Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 5 gal.

Cost: Skid-mounted: $10,994 (60Hz); $13,526 (400Hz); power unit $17,000, power plant $34,000

Availability: In production; 12-mo lead time.

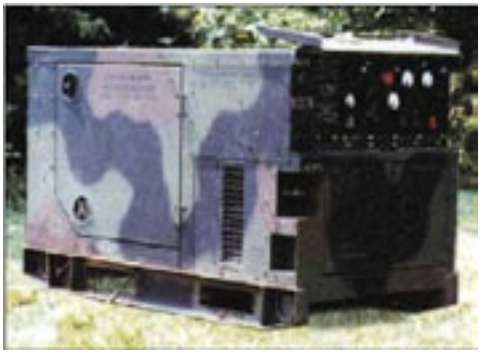
Supportability: Class VII item. TM 9-6115-641-10.

POC: DSN 654-3168, (703) 704-3168

ITEM	SIZE (ft^3)	WEIGHT (lbs)*	NSN
60 Hz, skid-mounted	34	888	6115-01-274-7387
400 Hz, skid-mounted	34	911	6115-01-274-7391
60 Hz power unit	410	2360 (S) 2320 (O)	6115-01-332-0741
60 Hz power plant, ¾ - T. trailer	420	3285(S) 3087 (O)	6115-01-313-4216
60 Hz power plant, 1.5-T. trailer	600	3985 (S) 3785 (O)	6115-01-313-4215

*S: Shipping weight. O: Operating weight

10kW Tactical Quiet Generator



Capability: AC power for weapons and missile systems, laundry and refrigeration systems, C4I systems; choice of 60Hz or 400Hz.

Description:

- 10kW output: 60 Hz or 400 Hz -120VAC, 1 phase, 2 wire; 120/240VAC, 1 phase, 3 wire; 120/208VAC 3 phase, 4 wire.
- Available skid-mounted (shown), as power unit on 3/4 –T trailer, or as power plant on 1.5-T trailer.
- Power units and plants come with accessory box, switch box, and fire extinguisher.
- Noise: 70 dBA @ 7 meters.

Manufacturer: Fermont, 203-366-5211; fermont@engineeredsupport.com

Fuel: Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 9 gal.

Cost: Skid-mounted: $12,516 (60Hz), $15,304 (400Hz)

Availability: In production; 12-mo lead time.

Supportability: Class VII item. TM 9-6115-642-10.

POC: DSN 654-3168, (703) 704-3168

ITEM	SIZE (ft^3)	WEIGHT (lbs)*	NSN
60 Hz, skid-mounted	41	1182	6115-01-275-5061
400 Hz, skid-mounted	41	1220	6115-01-274-7392
60 Hz power unit	410	2660 (S) 2457 (O)	6115-01-319-9032
400Hz power unit	410	2670(S) 2469 (O)	6115-01-313-4238
60 Hz power plant	600	4540 (S) 4334 (O)	6115-01-299-6035
400 Hz power plant	600	4550 (S) 4350 (O)	6115-01-313-4214

*S: Shipping weight. O: Operating weight

15kW Tactical Quiet Generator

Capability: AC power for weapons and missile systems, well kit, printing plant, C4I systems, hospital maintenance; choice of 60Hz or 400Hz.

Description:

- 15kW output: 60 Hz or 400 Hz; 120/208VAC, 3 phase, 4 wire; 240/416VAC, 3 phase, 4 wire.
- Available skid-mounted (shown), as power unit on .75-T. or 2.5-T. trailer, or as power plant on 1 or 2, 2.5-T trailers.
- Power units and plants come with accessory box, switch box, and fire extinguisher.
- Noise: 70 dBA @ 7 meters.

Manufacturer: Fermont, 203-366-5211; fermont@engineeredsupport.com

Fuel: Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 14 gal.

Cost: Skid-mounted: $12,926 (60Hz); $14,941 (400Hz)

Availability: In production; 12-mo lead time.

Supportability: Class VII item. TM 9-6115-643-10

POC: DSN 654-3168, (703) 704-3168

ITEM	SIZE (ft^3)	WEIGHT (lbs)*	NSN
60 Hz, skid-mounted	77	2124	6115-01-274-7388
400 Hz, skid-mounted	77	2238	6115-01-274-7393
60 Hz power unit	520	3380 (S) 3180 (O)	6115-01-319-9033
400Hz power unit	770	5055 (S) 4855 (O)	6115-01-317-2137
60 Hz power plant	520	5120 (S) 4920 (O)	6115-01-317-2138
400 Hz power plant	770 × 2	11,760(S) 9756 (O)	6115-01-299-6034

*S: Shipping weight. O: Operating weight

30kW Tactical Quiet Generator

Capability: AC power for weapons and missile systems, bakery plant, ADP support systems, water purification, C4I systems, aviation shop; choice of 60Hz or 400Hz.

Description:

- 30kW output: 60 Hz or 400 Hz: 120/208VAC, 3 phase, 4 wire; 240/416VAC, 3 phase, 4 wire.
- Available skid-mounted (shown), as power unit on 2.5-T. trailer, or as power plant on 2, 2.5-T trailers (60 Hz only).
- Power units and plant come with accessory box, switch box, and fire extinguisher.
- Noise: 70 dBA @ 7 meters.

Manufacturer: MC II Electric, Tulsa OK (918) 250-4413. info@mciigenerators.com

Fuel: Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 23 gal.

Cost: Skid-mounted: $22,012 (60kW), $24,348 (600Hz)

Availability: 12/93 and cont; new line 3Q01

Supportability: Class VII item. TM 9-6115-644-10.

POC: DSN 654-3168, (703) 704-3168

ITEM	SIZE (ft^3)	WEIGHT (lbs)*	NSN
60 Hz, skid-mounted	88	3006	6115-01-274-7389
400 Hz, skid-mounted	88	3015	6115-01-274-7394
60 Hz power unit	770	5900 (S) 5700 (O)	6115-01-317-2136
400Hz power unit	770	5930 (S) 5730 (O)	6115-01-317-2135
60 Hz power plant	770 × 2	13,440 (S) 11,440 (O)	6115-01-299-6033

*S: Shipping weight. O: Operating weight

60kW Tactical Quiet Generator

Capability: AC power for weapons and missile systems, Earth satellite terminals, field hospitals/schools, aviation ground support; choice of 60Hz or 400Hz.

Description:

- 60kW output: 60 Hz or 400 Hz: 120/208VAC, 3 phase, 4 wire; 240/416VAC, 3 phase, 4 wire.
- Available skid-mounted (shown), as power unit on 2.5-T trailer, or as power plant on 2, 2.5-T trailers or 1, 5-T trailer (Air Force version).
- Power units and plant come with accessory box, switch box, and fire extinguisher.
- Noise: 70 dBA @ 7 meters.

Manufacturer: MC II Electric, Tulsa, OK, (918) 250-4413, info@mciigenerators.com

Fuel: Diesel 1&2, diesel A, JP4, JP5, JP8. Fuel capacity 23 gal.

Cost: $25,063 (60Hz); $28,415 (400Hz)

Availability: 'A' model is discontinued; 'B' model 3Q01, Europe (new version, will have new NSN)

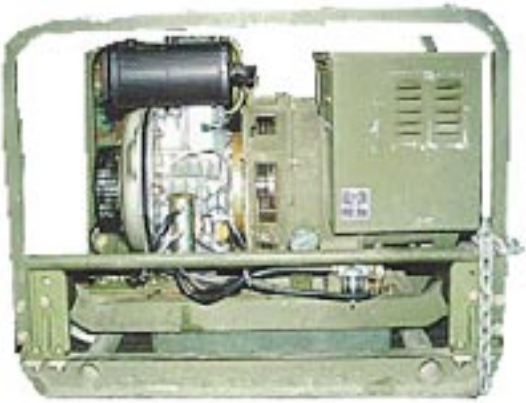
Supportability: Class VII, TM 6115-645-10 (Air Force TO-35C2-3-444-11)

POC: DSN 654-3168, (703) 704-3168

ITEM	SIZE (ft^3)	WEIGHT (lbs)*	NSN
60 Hz, skid-mounted	103	4063	6115-01-274-7390
400 Hz, skid-mounted	103	4153	6115-01-274-7395
60 Hz power unit	770	6920 (S) 6720 (O)	6115-01-317-2134
400Hz power unit	770	7015 (S) 6815 (O)	6115-01-317-2133
60 Hz power plant	770 × 2	15,440(S) 13,440(O)	6115-01-303-7896
400 Hz power plant	1172	15,800(S) 14,700(O)	Air Force PP-AN/MJQ-1610
60 Hz power plant	1172	15,800(S) 14,700(O)	Air Force PP-AN/MJQ-1612

*S: Shipping weight. O: Operating weight

3kW Re-Engine Kit



Capability: Simple replacement of gasoline engine in old 3kW generators.

Description:

- 6 HP air-cooled diesel engine, 1 cylinder, 4 cycle, direct injection, recoil starter, electric fuel and 24VDC magneto.
- Includes digital control panel.
- To date used only by reserve units.

Manufacturer: VSE Corporation, (703) 960-4600; info@vsecorp.com

Fuel: Diesel 1,2; diesel A; JP8

Size: 35" × 24" × 25" (12.2ft³)

Weight (lbs): 60Hz: 277 (wet); 400Hz: 341 (wet)

Cost: $2,400

Availability: Immediate (OMA funds)

Supportability: Class IX

NSN: 2815-01-440-4426

POC: DSN 654-3168, (703) 704-3168

5kW 28 VDC Auxiliary Power Unit

Capability: 5kW DC generator; replacement for old 4.2kW gasoline models on APCs; used on M1068 tracked APC; for C4I systems.

Description:

- 28VDC, standard NATO slave receptacle for electric start but also has hand crank; electric or manual start; cannot operate separated from vehicle, can be loaded on aircraft w/o removal from APC.
- Very low profile promotes driver visibility.
- Air cooled.

Manufacturer: Goodman Ball Ind., (650) 363-0113, gbi@ixnetcom.com

Fuel: Diesel

Size: 34" × 3031" × 17" (11.4 ft^3)

Weight (lbs): 550, including housing.

Cost: $18,221

Availability: 6 mo lead time from manufacturer.

Supportability: Class IX item; available as part of 1068 only

NSN: 6115-01-452-6513 (Production model)

POC: DSN 654-3168, (703) 704-3168

10kW SICP 120/240VAC Auxiliary Power Unit

Capability: 10kW 60Hz, 120/240 VAC generator for power supply to shelters.

Description:

- Supplied on rail for insertion into shelter tunnel; 28 VDC start (from vehicle); 20 A battery charger.
- Slightly different configuration in Air Defense version. Remote control panel (in shelter).
- C model is most recent.
- Starting and fuel depend on HMMWV.
- Noise: 70 dBA @ 7 meters.

Manufacturer: KECO Industries; Versailles, KY, 1-800-395-6932

Fuel: Diesel 1&2; JP-8, Jet A-1. Uses vehicle fuel via quick-disconnect

Size: 36" × 26" × 28" (15.3 ft^3)

Weight (lbs): 460 on rail

Cost: $14,684

Availability: 12 mo lead time from manufacturer.

Supportability: Class VII item. TM 9-6115-670-14&P

NSN: 6115-01-431-3062

POC: DSN 654-3168, (703) 704-3168

Power Distribution Systems: PDISE Boxes

Capability: 4 sizes of generator-power-distribution boxes (40, 60, 100, and 200A), connecting cables, and assemblage of utility extension cords, branch circuits and lighting equipment (see table).

Description: Man-portable electrical distribution systems for safe, all-weather electrical power distribution from generator sets to multiple users (such as vehicles, shelters, field unit complexes, tents, etc.). Enables quick assembly/disassembly. Various sizes allow selection to match generators from 5kW to 100kW (see table). For specifics of supporting cable systems for your application, contact project engineer. DISE systems have been replaced by PDISE systems, which have a circuit breaker that is not affected by high ambient temperatures.

Manufacturer: UNICOR (Federal Prison Industries).

Liaison: 732-532-2758

Availability: Minimum manufacture order 5 ea; 7-mo lead time

Supportability: Class VII item.

POC: DSN 654-3168, (703) 704-3168

MODEL	ITEM	NSN	DESCRIPTION	COST*
M40 A/P	Electrical distribution system	6150-01-307-9446	3 phase, 40A, 120/208V. Used w/ 10-200kW gen.sets. 24.25"L, 21.74"W, 16.12"H, 4.91 cu ft, 55 lb	$6,826
M60A/P	Electrical distribution system	6150-01-307-9445	Single phase. 60A, 120V. Used with 5, 10, 15 kW gen. sets. 24.25"L, 21.74"W, 15.5"H, 4.73 cu ft, 45 lb	$5,163
M100 A/P	Electrical distribution system	6150-01-308-5671	3 phase, 100A/phase. Used w/ 30, 60, 100, 200 kW gen.sets. 24.25"L, 22.35"W, 29.37"H, 6.39 cu ft., 77 lb.	$6,440
M200 A/P	Electrical distribution system	6150-01-308-5672	3 phase, 200A/phase. Used w/ 60, 100, 200kW gen. sets. 33.5"L, 22.97"W, 20.37"H, 9.07 cu ft, 140 lb.	$11,933
M46	Electrical distribution system	6150-01-208-9751	Used w/ 5kW to 200kW gen. sets. Distributes electrical power with lighting and electrical receptacles.	$2,470

*Cost each; minimum order 5

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For additional information, or to request copies, please contact:

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nsrdec.natick.army.mil/media/print/Smartbook_Web.pdf

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