



'Intelligent Battery System'®



*6 Pack*  
*1 500Wh – Intelligent Portable Power*  
*System*

*BTE-70791A*

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# Intelligent Portable Power System



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## BTE-70791A

### Multi Input

8 – 32 VDC Input  
Solar Input  
Fuel Cell Input  
90 - 264 VAC Input



**1 200 or 1 500 WH by unit**

NATO 8V-32V Output

Rechargeable

Compact, Portable & Smart

17Kg – 28 x 25 x 30 cm

Full MIL-STD 810 & 461

Silent watch, reliable, efficient

Low thermal signature

**Use of standard BB2590/U pack For**  
Optimized Logistic – Reduced Cost  
Interoperability - Duration life



## BTE-70791A

### Man Machine Interface



- Permanent LCD Absolute State of Charge + Back light
- Power System balance LED indications
  - Charging
  - Discharging
  - Full
  - Default



# Intelligent Portable Power System



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## BTE-70791x Roadmap

### Use of standard BB2590/U pack

Allow '6Pack' to benefit the BB-2590/U Enhancement and Roadmap



**2009**  
1.200 WH

**2010**  
1.500 WH

**2011-2012**  
1.650 WH

**2014**  
2.075 WH ...

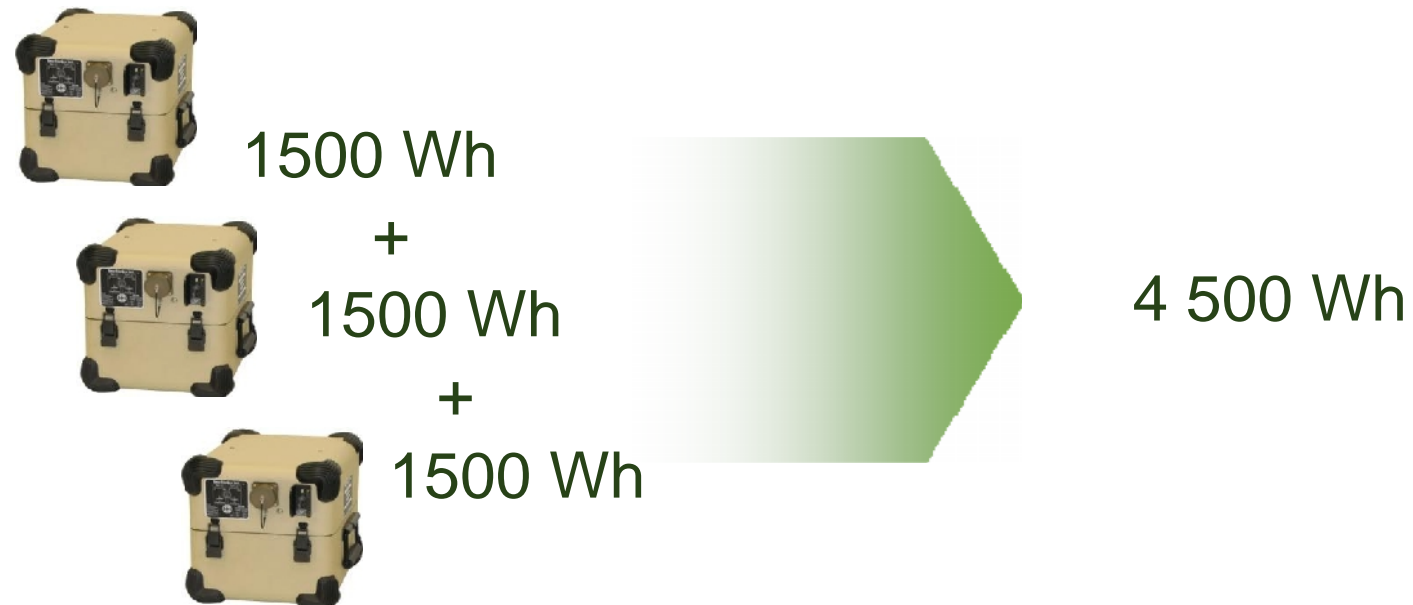


# Intelligent Portable Power System

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When more power or energy is required...



...connect units in parallel to support longer runtimes.

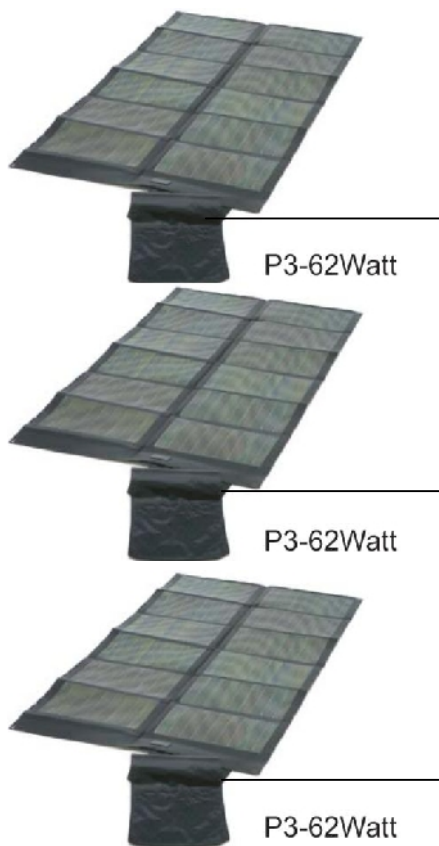




# Solar Portable Station



62 W Solar Panel



80W in 2010-2011



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Output  
24V-30A  
12V-60A



285W Solar Panel

## Applications

Charging Station

LOS Station

NBC Sensors

Portable Radar

Border Surveillance

Field Command Post

HF- VHF Radio Station

Camp Power Generator

Electronic Warfare Station

Artillery Target Acquisition



# Wind turbine Portable Station

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250W Wind turbine



Output  
24V-30A  
12V-60A

IPPS « 6-pack »  
BTE-70791A

## Applications

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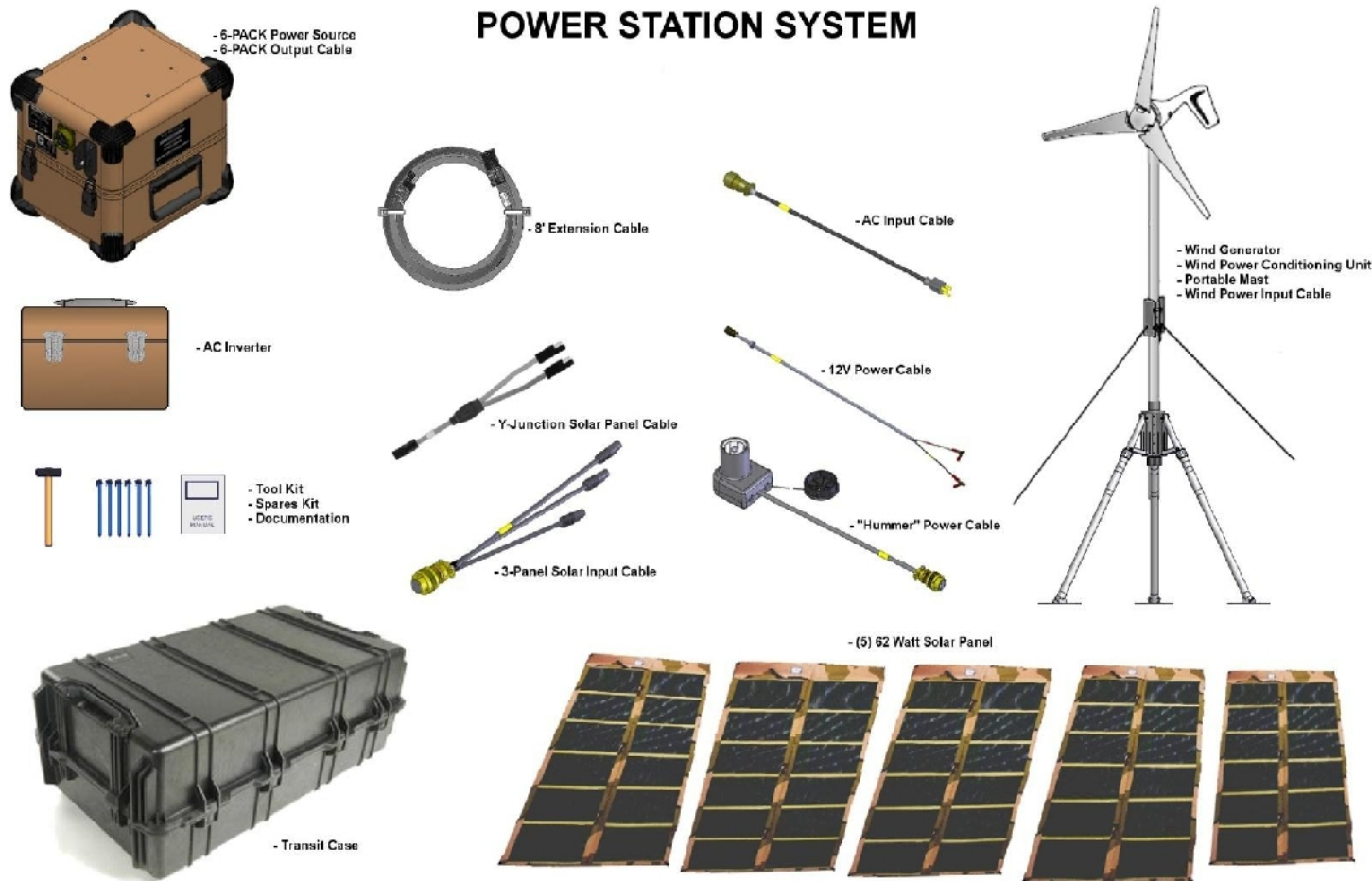


# Unlimited autonomy – Hybrid Power Station

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## POWER STATION SYSTEM







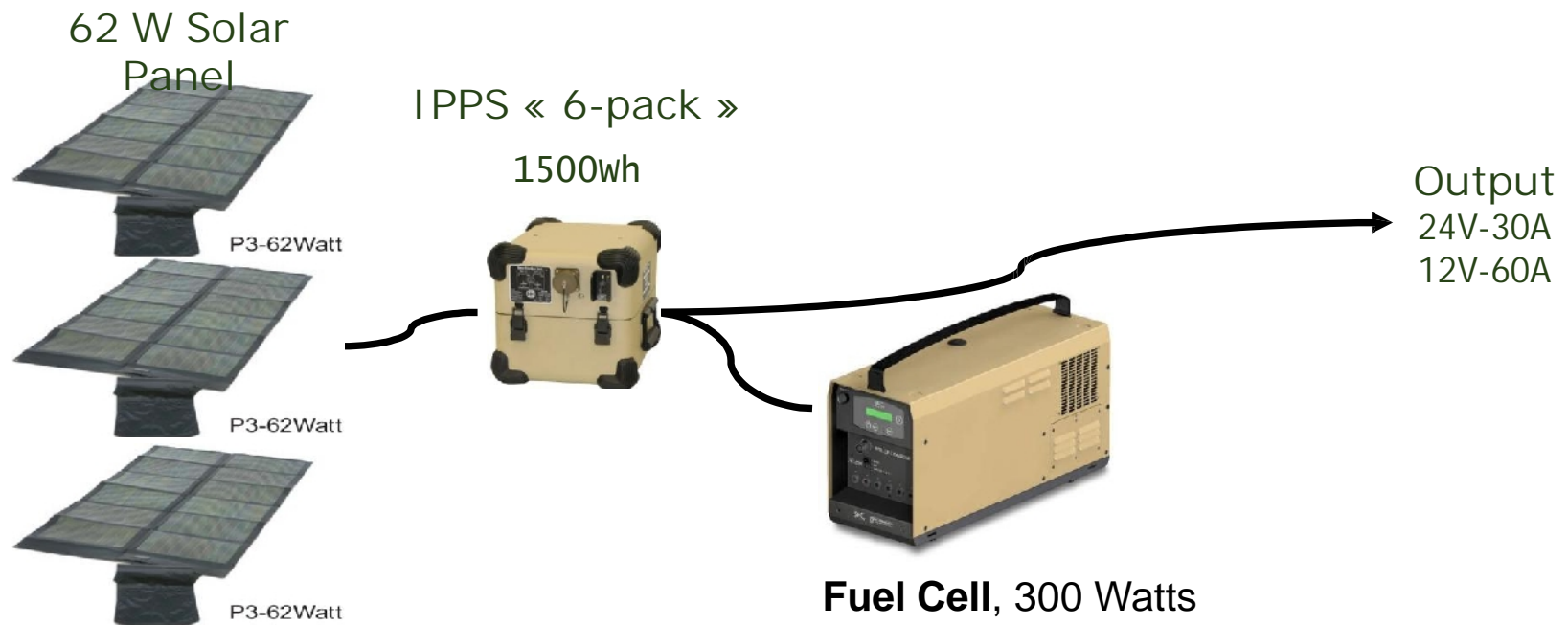
# Unlimited autonomy – Hybrid Power Station



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Hybrid configuration => Combined Fuel Cell & Solar panels

## Man Portable Solution



Fuel cell is Silent Watch



# Unlimited autonomy – Field Simulation

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Simulation tool (Field location & configuration)  
=> simulated autonomy

- Homer tool V2.68, [www.homerenergy.com](http://www.homerenergy.com)
- Weather conditions – based on NASA database
  - « Surface Solar Energy Data Set » - <http://eosweb.larc.nasa.gov/sse/>.
- Location : for instance - Tchad (Moussoro) Location 13°38'N / 16°30'E O
- Configuration : for instance
  - Average consumption 50W 24h/24h – 7days/7days
  - Qty 1, 6Pack + qty 6, Solar Panels 62W

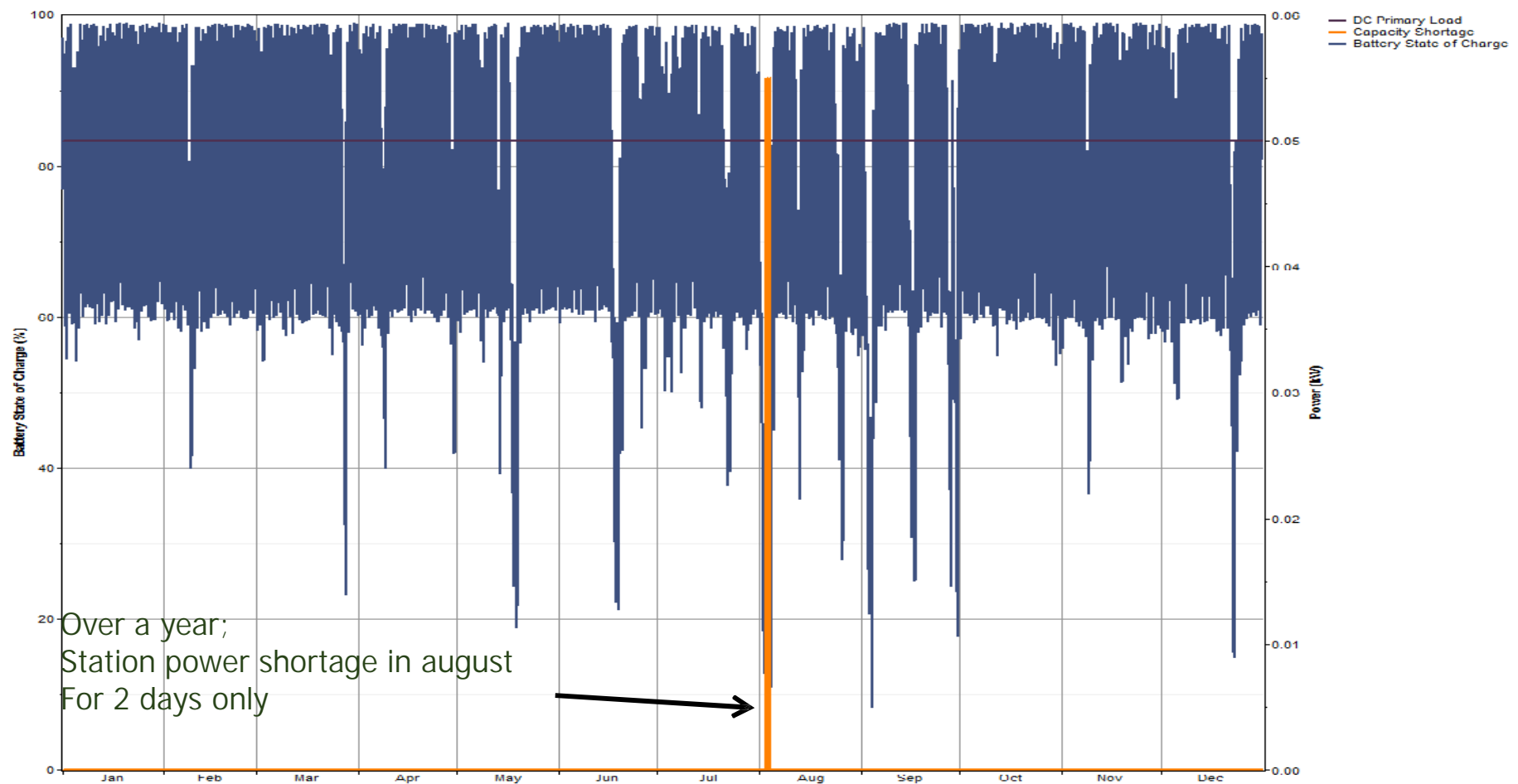


# Unlimited autonomy – Field Simulation

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Simulation tool (Field location & configuration) => simulated autonomy



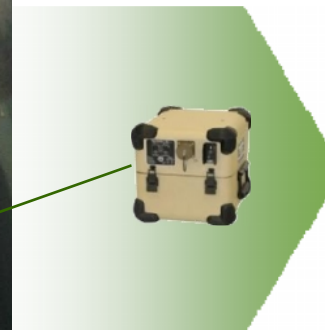


# Vehicle Integration

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- Dedicated power solution for embedded C4I equipment
- Compact and Safe
- Integrated floating and fast charge features
- Avoid vehicle battery deep discharge







# Vehicle Integration

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# Multi application - Sensors

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longer or unlimited  
autonomy

Sensors



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**LOS Station**



**HF-VHF Station**





# Multi application - Surveillance

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**EWR Station**

No Gas  
No Gas transportation



**Portable Radar**

## Applications

**Charging Station**

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**NBC Sensors**

**Portable Radar**

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# Multi application - Surveillance







# Multi application - Surveillance

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