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AVIATION FOREIGN TRADE COMPANY

Solar power devices set

Charging of radio station batteries in field environments by means of SZU2-BSA-15P

Use of portable power station EPS-100-2P in field environment

Devices:

Portable solar power station EPS-100-2P - 1 pc.

- *Solar charging unit SZU1-BSA-8P - 3 pcs.*
- *Solar charging unit SZU2-BSA-15P - 2 pcs.*

Power station EPS-100-2P Is designed for:

- *power supply of communication facilities and other tactical electronic devices in order to enhance the possibility of their operational use in the heavy duty environment;*
- *lightning of temporary and field locations and detached structures;*
- *charging of various batteries with 1,5-12V operating voltage*

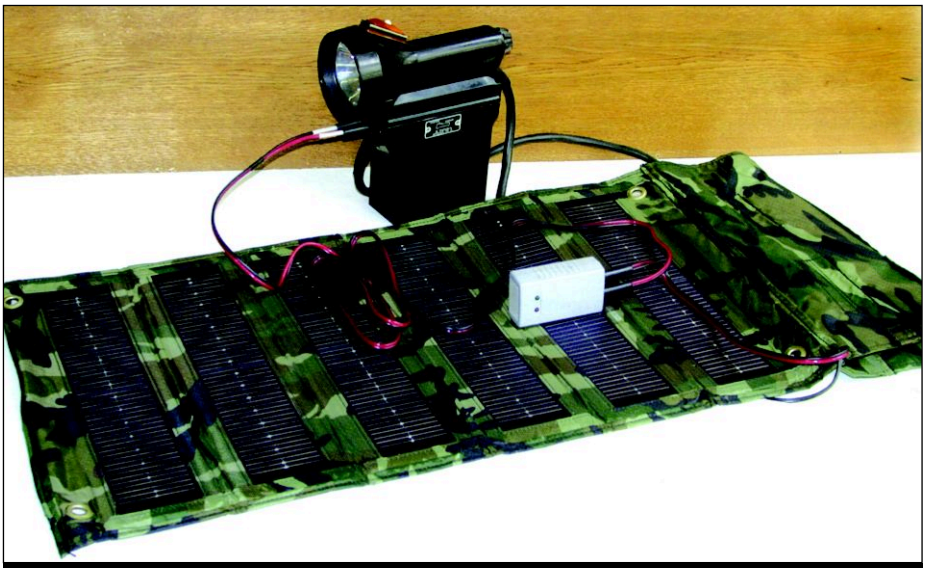
Solar charging unit SZU1-BSA-8P is designed for charging of electric lanterns FAS-4

Solar charging unit SZU2-BSA-15P is designed for:

- *charging of any batteries with 12V rated operating voltage;*
- *charging of any satellite phones, radio stations, and technical control devices with rechargeable batteries 12V rated operating voltage;*
- *powering of various devices (battery lanterns, video cameras, notebooks, electronic control devices, etc) with rechargeable batteries.*

Key specifications of power station EPS-100-2P

Maximum power of 12 V circuit	100W
Rechargeable battery output voltage	12,5V
Transformer output voltage	1,5; 3; 4,5; 6; 7,5; 9; 12V
Rated current of 12 V circuit	6A
Rechargeable battery capacity	14,4 Ah
Operation life	3 years
Overall dimensions in the case	480x180x200 mm
Weight	9,2kg



Solar charging unit SZU1-BSA-8P for battery lantern FAS-4

Key specifications of solar charging unit SZU1-BSA-8P

Output voltage	4,3V
Maximum current	0,9 A
Overall dimensions in the case	155x400x40 Mm
Weight	0,8kg

Key specifications of solar charging unit SZU2-BSA-15P

Output voltage	14,2V
Maximum current	1 A
Overall dimensions in the case	155x400x50 mm
Weight	1,3kg

109316, Moscow, Volgogradskiy Prospect, 35, Tel. (095) 267 76 15, Fax. (095) 261 29 65, www.allwe.ru, e-mail: allwe@ntl.ru

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Autonomous portable solar power station EMS-140 (EPS-100P)

Power station EMS - 140 during transportation

EMS solar power stations belong to the renewable primary power supply sources group.

The principle of operation is based on:

- ***direct solar electric energy converting***
- ***accumulation and storage of electric energy in a buffer battery***
- ***supplying the users with power in desired mode directly or through transformers and switching devices.***

Thanks to the solar batteries manufactured using three stage anamorphous silicone technology that makes them resistant to mechanical impacts (stroke, bend, vibration) and climatic conditions (rain, snow, dust) the units can be used in almost any extreme environment.
As buffer battery is used unattended lead-acid accumulators.

The power station is designed for power supply for the following groups in isolation from central electrical mains:

- ***field and temporary staff, mobile hospitals during the natural and man-caused disasters, posts and action stations of EMERCOM, MIA, MOD troops, temporary frontier posts, FSS posts, temporary customs supervision posts, autonomous transponders, etc.***
- ***forestry, forest cordons, temporary camps for fishermen, hunters, tourists, geologists, farmers as well as other specialists working in isolation from central electrical mains;***
- ***during blackouts in stationary or local electric mains as emergency power source;***
- ***charging points for various batteries with 1 ,5-1 2V operating voltage.***

Portable slar power station (EMS - 140)

General Specification:

Output voltage	V	12,5±2
Transformer output voltage	V	1,5; 3; 4,5; 6; 7,5; 9; 12
Max current of 12 V circuit	A	14
Rated current of 12 V circuit	A	12
Max power of 12 V circuit	W	140
Storage battery capacity	Ah	65
Full charging time from the mains 220 V 50 Hz	h	12
Full charging time from the solar battery	h	12
Solar battery max power	W	100
Weight, kg	Kg	60
Dimensions, mm:		
Battery container		340x180x220
Bag		560x420x250
Cover		2000x150x150
Operating temperatures	°C	or -10 ao +40

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