



**Ukrainian Internet Association**

04053, Ukraine, Kyiv, O.Honchara str., 15/3, app. 22

[info@inau.ua](mailto:info@inau.ua); [www.inau.ua](http://www.inau.ua)

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**Dear partner!**

We, Ukrainian Internet Association (UIA), are the largest professional association of Ukrainian Internet providers, content providers and public organizations. All those who not only understand that the future of Ukraine is impossible without an information society in it, but also are actively working to protect it.

The telecommunication of Ukraine is one of the most critical industries. Unfortunately, the number of bombed and destroyed telecommunications infrastructure is increasing. There are now thousands of recorded cases of partial or complete destruction of networks and equipment. Moreover, in recent months Russian troops have begun to also destroy the energy infrastructure of Ukraine. After such attacks the country is often left without light, warmth and water for an uncertain amount of time. And under these fierced conditions, operators are forced to repair and maintain the networks by themselves, while also providing back-up electricity for their networks, so millions of citizens will remain with the Internet connection.

We will be grateful for your help in purchasing the necessary equipment for backup power supply networks.

In the appendix there are samples of typical solutions for such needed tools. Formed, as an example, on the basis of «Victron Energy» equipment (vendor may be different).

This hardware will allow private operators to handle a larger number of emergency cases. It will also reduce the financial burden which today operators are forced to bear on their own.

Thank you for your support!

**Sincerely**

**Chairman of the Board of the Ukrainian Internet Association**

A handwritten signature in blue ink, consisting of a series of loops and a long horizontal stroke extending to the right.

**Oleksandr Savchuk**

<b>Consumer 250 W, reserve 12 hours</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 400 W	Victron Energy MultiPlus 48/500/6-16 (430 W)	1	580	580
Block of lithium batteries 3.5 KW/h	US3000C	1	2 080	2080
Accessories	US3000 mounting plate	1	70	70
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>3 230</b>

<b>Consumer 500 W, reserve 12 hours</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 700 W	Victron Energy MultiPlus 48/800/9-16 (700 W)	1	710	710
Block of lithium batteries 7 KW/h	US3000C	2	2 080	4150
Accessories	US3000 mounting plate	2	70	140
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>5 500</b>

<b>Consumer 1000 W, reserve 12 hours</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 1 KW	Victron Energy MultiPlus 48/1200/13-16 (1000 W)	1	990	990
Block of lithium batteries 14 KW/h	US3000C	4	2 080	8310
Accessories	US3000 mounting plate	4	70	290
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>10 090</b>

<b>Consumer 250 W, reserve 24 hours</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 400 W	Victron Energy MultiPlus 48/500/6-16 (430 W)	1	580	580
Block of lithium batteries 7 KW/h	US3000C	2	2 080	4150
Accessories	US3000 mounting plate	2	70	140
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>5 370</b>

<b>Consumer 500 W, reserve 24 hours</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 700 W	Victron Energy MultiPlus 48/800/9-16 (700 W)	1	710	710
Block of lithium batteries 14 KW/h	US3000C	4	2 080	8310
Accessories	US3000 mounting plate	4	70	290
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>9 810</b>

<b>Consumer 1000 W, reserve 24 hours</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 1 KW	Victron Energy MultiPlus 48/1200/13-16 (1000 W)	1	990	990
Block of lithium batteries 25 KW/h	US3000C	7	2 080	14530
Accessories	US3000 mounting plate	7	70	510
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>16 530</b>

<b>Consumer 250 W, reserve 24 hours with photo modules</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 400 W	Victron Energy MultiPlus 48/500/6-16 (430 W)	1	580	580
Solar panel 5,5 KW	JA SOLAR JAM72S20-460	12	200	2390
Solar Charge Controller	SmartSolar MPPT 250/100-Tr VE.Can	1	1 130	1130
Block of lithium batteries 7 KW/h	US3000C	2	2 080	4150
Accessories	US3000 mounting plate	2	70	140
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>8 890</b>

<b>Consumer 500 W, reserve 24 hours with photo modules</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 700 W	Victron Energy MultiPlus 48/800/9-16 (700 W)	1	710	710
Solar panel 11 KW	JA SOLAR JAM72S20-460	24	200	4780
Solar Charge Controller	SmartSolar MPPT 250/100-Tr VE.Can	2	1 130	2270
Block of lithium batteries 14 KW/h	US3000C	4	2 080	8310
Accessories	US3000 mounting plate	4	70	290
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>16 860</b>

<b>Consumer 1000 W, reserve 24 hours with photo modules</b>				
	<b>Example equipment</b>	<b>Number</b>	<b>Approximate cost in Ukraine (Euro, USD)</b>	<b>~Total (Euro, USD)</b>
Inverter/charging station 1 KW	Victron Energy MultiPlus 48/1200/13-16 (1000 W)	1	990	990
Solar panel 22 KW	JA SOLAR JAM72S20-460	48	200	9550
Solar Charge Controller	SmartSolar MPPT 250/100-Tr VE.Can	4	1 130	4530
Block of lithium batteries 25 KW/h	US3000C	7	2 080	14530
Accessories	US3000 mounting plate	7	70	510
	Cable for battery-INV	1	40	40
	Communication cable	1	10	10
	Control panel CerboGX	1	450	450
				<b>30 610</b>