



NSD-800-240-545/3U

**DC Power supply system with TCP/IP remote monitoring,
battery back-up and up to three output voltages**



The power supply system consists of a 19" subrack of the 3U height, which can be fitted with up to six plug-in modules. 4 AC/DC units can be installed altogether that ensure charging of the connected backup battery and supply the main output voltage level. In addition, the system can be equipped with two DC/DC modules. Thus, the power supply system can provide up to three different output voltages that are backed up by the common battery. The DC/DC modules also enable mutual parallel arrangement and modules providing the same voltage can also be installed. This option is convenient in situations when two voltage levels are sufficient, but a higher output is required.

The current values and status of the power supply system can be monitored via a web interface or the system can be directly integrated in a superior system using the SNMP protocol. The system supports sending of e-mail alarm messages if preset parameters are exceeded.





Mechanical parameters of NSD-800

- Dimensions (H x W x D) 44,5 x 483 x 240 mm
- Weight 4,1kg
- Operating temperature -10°C to + 40°C
- Optimal operating temperature +18°C to +25°C

Electrical parameters of rectifier module

- Input voltage 230V ± 10% / 50Hz
 - Output voltage 54,5V DC +/- 10 % adjustable
 - Input current
 - Nominal 3,7A DC / module
 - Maximal 4A at 48V in current regulation
 - Efficiency > 80%
- Load sharing among all plugged in modules / Separation diode in positive branch

Electrical parameters DC/DC converter

- Input voltage 54,5V DC (from BUS)
- Output voltage 24V DC
- Output current nominal 6A DC
- Efficiency > 80

Connectivity

Connecting terminals are on the back side:

Inputs: Terminal RSA6: min. 1mm² / recommended 1,5mm² / max. 6mm²

Outputs: Output connectors type RSA4. Conductor profiles: max. 4mm² / recommended 2,5 mm²

Signalisation: by COM/NC alarm (switching contact) on the back side of the signal panel - modules 1,2,3,4 - OK – combined

REMOTE MONITORING IN BKE POWER SUPPLIES

The monitoring (IP) module used in the BKE power supplies enables simple and clear monitoring of individual power supply parameters. The module provides information about the general status of the power supply unit, presence of the supply mains and the condition of the protection of the input, output and battery. Battery charging parameters are also monitored - actual voltage, current and temperature and the total current provided by the power supply unit. The possibility of immediately checking the values of these parameters allows engineers to identify the cause of the problems in a particular location before their actual intervention, which helps them avoid or considerably reduce the downtime of the equipment.

The power supply units can be integrated in higher systems using the SNMP protocol, monitored individually via and integrated web interface and they can provide reports about exceeding of monitored parameters by sending e-mail messages. The limit values of the monitored parameters can be customized so that the module can warn the operator in time if an event occurs. E.g. thanks to measurement of the battery voltage the user can be warned in time before its disconnection.

Alarm configuration (screenshot)

BKE a.s. IP: 192.168.1.157 Version: 1.0.12 **MONITOR CONFIGURATION**

	Display	Range Setup		Alarm Value	
		Min	Max	Min	Max
Power Source Current	<input type="checkbox"/>	0.0	999.9	10.0	199.9
Battery Voltage	<input checked="" type="checkbox"/>	0.0	56.8	44.0	56.0
Battery Current	<input type="checkbox"/>	0.0	999.9	10.0	199.9
Battery Temperature	<input type="checkbox"/>	0.0	999.9	10.0	199.9
Grid State	<input checked="" type="checkbox"/>				
Grid Fuse	<input type="checkbox"/>				
Battery Fuse	<input type="checkbox"/>				
Output Fuse	<input type="checkbox"/>				
Power Source State	<input checked="" type="checkbox"/>				

[Disconnect Output](#)

