



NES-I 3-Phase System Inverter

Power inverter for off-grid and hybrid systems

NES-I 3-phase system inverters stand out thanks to their vast range of applications. Whether simply supplying a symmetrical load (pumps, motors, fans etc.), off-grid / back-up power operation or complex supply with up to 100% phase load imbalance and UPS function with and without mains parallel operation / feed-in: anything is possible! Thanks to a high maximum efficiency of 98% (grid feed-in), and 92% in isolated operation, it is one of the most efficient inverters of its class. Available in ratings 10 - 20 - 30 and 40 kW. Even higher outputs can be achieved by connecting several appliances in parallel.

Key Features

- ✓ Can be connected in parallel for even higher capacities
- ✓ Outstanding overload capacity
- ✓ Simple installation, set-up and operation
- ✓ UPS-compatible (switching time < 0.1 sec.)
- ✓ THD below 3%
- ✓ 100% phase load imbalance possible
- ✓ Available with and without grid feed-in
- ✓ Suitable for zero input and back-up power systems without registering with public utility





Technical Data

NES-I 3-phase system inverter*

NES-I (H)	10 I	10 H	20 I	20 H	30 I	30 H	40 I	40 H
Operation on public supply grid	No	Yes	No	Yes	No	Yes	No	Yes
Rated supply voltage (V)	400 V	400 V	400 V	400 V	400 V	400 V	400 V	400 V
Rated frequency (Hz)	50	50	50	50	50	50	50	50
Output off-grid/grid feed-in (kW)	10	10/10	20	20/17	30	30/25	40	40/34
Max. output off-grid (at 25°C for 1 min.)	15	15	30	30	45	45	60	60
Input voltage (V)	750 V	750 V	750 V	750 V	750 V	750 V	750 V	750 V
Max. efficiency (%)	92	98	92	98	92	98	92	98

Mechanical Dimensions

Width x height x depth (cm)	50x130x50	125x116x41	50x130x50	125x116x41	125x116x41	90x210x60	125x116x41	90x210x60
Weight (kg)	144	163	198	232	256	302	344	403

Environmental Conditions

Ambient temperature (°C)	-25 to +60	-25 to +60	-25 to +60	-25 to +60	-25 to +60	-25 to +60	-25 to +60	-25 to +60
Protection class	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21	IP 21

* Products and services as well as technical data are subject to change, this includes any change as a result of country-specific legislation. NES-GmbH is not liable for any mistakes or printing errors.

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