

# WAKSPOWER11-G4

## 6-10kVA, PF=1.0







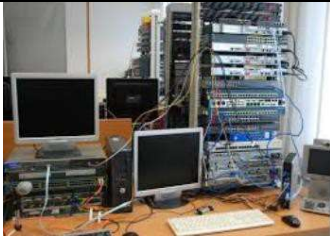

WAKSPOWER11-G4-06k0-5
WAKSPOWER11-G4-06k0-8
WAKSPOWER11-G4-10k0-3
WAKSPOWER11-G4-10k0-4
WAKSPOWER11-G4-06k0-BC192
WAKSPOWER11-G4-10k0-BC192

**CE** **RoHS**  **VFI-SS-111**

## Features

<ul style="list-style-type: none"> <li>• Pure sine output wave (true sin),</li> </ul>	<ul style="list-style-type: none"> <li>• Output power factor: 1.0</li> <li>• Input power factor: 0,99</li> </ul>
<ul style="list-style-type: none"> <li>• True online double conversion – topology VFI-SS-111 High-frequency</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced DSP technology</li> <li>• Long backup time</li> </ul>
<ul style="list-style-type: none"> <li>• Tower standalone</li> <li>• 1phase -&gt; 1phase</li> </ul>	<ul style="list-style-type: none"> <li>• Dual-input design</li> <li>• Bypass available</li> </ul>
<ul style="list-style-type: none"> <li>• Output voltage independent</li> <li>• Parallel workup 4pcs</li> <li>• Flexible battery configuration</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced fan management</li> <li>• Efficiency 94% (in mode Eco 98%)</li> <li>• Cold start</li> </ul>
<ul style="list-style-type: none"> <li>• Auto battery charger, floating/equalizing charge control current 1...5A</li> </ul>	<ul style="list-style-type: none"> <li>• Settable delayed start time when mains power is restored, reducing impact on power grid or generator</li> </ul>
<ul style="list-style-type: none"> <li>• Remote control and management</li> </ul>	<ul style="list-style-type: none"> <li>• LED+LCD display</li> </ul>
<ul style="list-style-type: none"> <li>• internal service bypass</li> </ul>	<ul style="list-style-type: none"> <li>• communication protocols: RS232, USB, RS485, NET, Dry contacts, SNMP, Wifi, GPRS</li> </ul>

## Application

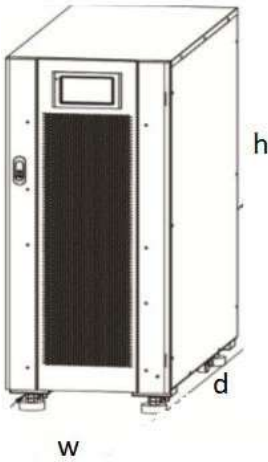
		
<b>Telecommunication systems</b>	<b>Servers</b>	<b>Industrial</b>
		
<b>Buildings</b>	<b>Laboratory</b>	<b>Motors</b>

## Technical parameters

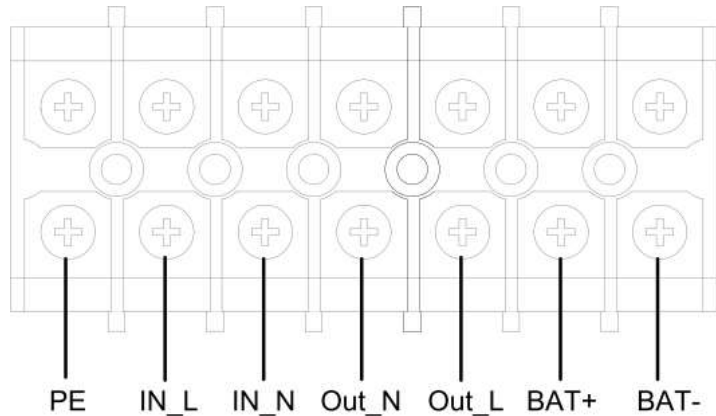
MODEL	WAKSPower11-G4-06k0-5	WAKSPower11-G4-06k0-8	WAKSPower11-G4-10k0-3	WAKSPower11-G4-10k0-4	WAKSPower11-G4-06k0-BC192	WAKSPower11-G4-10k0-BC192
Output power	6kVA / 6kW	6kVA / 6kW	10kVA / 10kW	10kVA / 10kW	6kVA / 6kW	10kVA / 10kW
<b>INPUT</b>						
Input voltage (1-phase)	Rated: 230VAC Additional: 208V / 220 V / 230V / 240V (selectable) Input range: 176...288Vac (full power) Bypass: -40%...+15% rated					
Input frequency	40-70Hz Auto-selection					
Power factor	PF >0,99					
Connection:	2x 6mm <sup>2</sup>	2x 10mm <sup>2</sup>		2x 6mm <sup>2</sup>	2x 10mm <sup>2</sup>	
<b>OUTPUT</b>						
Output voltage (1-phase)	Mains mode: 230Vac +/- 1% (options: 208Vac, 220Vac, 240Vac +/- 1%) Battery mode: 230Vac +/- 1% (options: 208Vac, 20Vac, 240Vac +/- 1%)					
Output frequency	50/60Hz ± 1% (auto-selection), grid synchronization					
Output wave	Mains mode: pure sine Battery mode: pure sine					
Transfer time	Grid -> battery: 0ms To electronic bypass: 4ms					
THD	THD <1% linear THD <4% non-linear					
Connection	2x 6mm <sup>2</sup>	2x 10mm <sup>2</sup>		2x 6mm <sup>2</sup>	2x 10mm <sup>2</sup>	
Efficiency	Mains mode: >94% (max) ECO mode: >98%					
Output power factor	1.0					
Crest factor	3:1					
Load type	Resistance, inductive, rectifier					
Overload	105%...110%: 10min 110%...125%: 1min 126...150%: 30sek					
<b>BATTERY</b>						
Battery type:	Lead acid VRLA AGM 12V					
Charger current:	1A			1...5A		
Q-ty:	16...20pcs (default 16pcs)					
Q-ty:	16szt 12V/7Ah	16szt 12V/9Ah	16szt 12V/7Ah	16szt 12V/9Ah	None, external battery bank	
Capacity	12V: 9Ah or 12V:7Ah				---	
Battery chain	Default: 192Vdc Settable: 192...240Vdc					
Charging time	10h					

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Output power	6kVA / 6kW	6kVA / 6kW	10kVA / 10kW	10kVA / 10kW	6kVA / 6kW	10kVA / 10kW
<b>BACKUP TIME</b>						
For 100% load	4min	6min	2min	3min	5min – 2h (external battery bank)	
For 75% load	5min	8min	3min	4min		
For 50% load	7min	10min	5min	7min		
For 25% load	10min	12min	10min	12min		
<b>DIMENSIONS</b>						
Weight netto/brutto (kg)	53/61kg	61/70kg	54/62kg	62/70kg	14,5/16kg	16,5/18kg
Dimension w / d / h (mm)	191/465/711mm		191/465/711mm		191/465/ 350mm	191/495/ 350mm
Packing w / d / h (mm)	310/654/941mm				318/595/ 475mm	318/617/ 475mm
<b>PROTECTIONS</b>						
Full protections	Overload, short-circuit, overtemperature, battery low voltage, overvoltage, undervoltage, fan failure					
<b>ENVIRONMENT</b>						
Humidity	0~95% RH @ 0~40°C (non-condensation), IP20					
Noise	<55dB, Fan speed control					
<b>COMMUNICATIONS</b>						
Port USB (standard) Port RS232 (standard)	Linux, Windows®98 Server 2016, Windows®98/2000/2003/XP/Vista/2008/Windows®7/Windows®8/ Windows®10/, UPSmart					
Slot (one)	KU-CARD-SNMP, serial network managing protocol					
	KU-CARD-AS400, dry contact					
	KU-CARD-GPRS					
	KU-CARD-MODBUS					
EPO (standard) Dry contact	Emergency Power OFF socket					
<b>REGULATIONS</b>						
Topology	VFI-SS-111					
LVD	EN62040-1-1					
EMC	EN62040-2					
	EN61000-4-2					
	EN61000-4-3					
	EN61000-4-4					
	EN61000-4-5					
	EN61000-2-2					

## View:



## Connections:



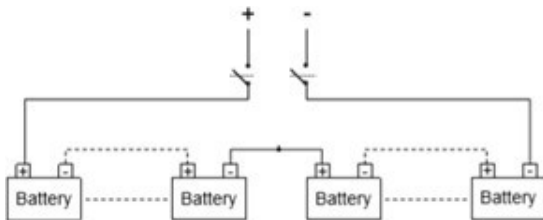
**BAT+ BAT- Battery connection**

**IN\_L, IN\_N, Input**

**OUT\_L, OUT\_N Output**

**PE Ground**

## Battery connection 16-20pcs:



## Rear panel:

- 1 – Port RS232 (DB9)
- 2 – EPO
- 3 – parallel slot
- 4 – port USB (type B)
- 5 – battery temp slot
- 6 – SNMP/AS400 slot
- 7 – Reserved (cover)
- 8 – Fan
- 9 – Bypass switch
- 10 – Input breaker
- 11 – GND
- 12 – Input/output cover

