

MODULAR INVERTER

POWER 2.5 kVA (1.5 kVA*) INPUT 24* / 48 / 60 / 110 / 220 Vdc OUTPUT 230 Vac



BRAVO is a compact and scalable modular inverter providing a pure sine wave AC supply. In conjunction with a DC Power system, it provides an excellent AC backup solution. It uses the latest inverter technology, providing superior energy efficiency in a compact size.

The "Twin Sine Innovation" (TSI) technology eliminates all single points of failure with full scalability; up to 32 modules in parallel and high efficiency of up to 96 % reducing operating costs.

APPLICATIONS

All business critical applications and all types of AC loads. The design is modular and scalable with hot- swappable inverter modules which ensures low Mean Time to Repair (MTTR), reduction in service costs and meets the changing needs for future expansion.



MAIN FEATURES

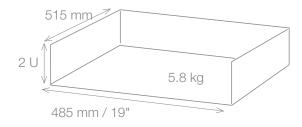
- Dual input sources (AC & DC) with wide AC input range 150 Vac to 265 Vac
- >>> Compact design
- >> High efficiency
- >>> Transfer time reduced to 0
- when to 10kVA in 2 U
- >> up to 225kVA in 3 enclosures of 75kVA each

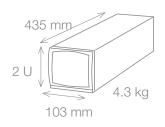


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	24 / 230	48 / 230	60 / 230	110 / 230	220 / 230	
GENERAL						
EMC (immunity)	EN 61000-4-	EN 61000-4-2 / EN 61000-4-3 / EN 61000-4-4 / EN 61000-4-5 / EN 61000-4-6 / EN 61000-4-8				
EMC (emission) (class)	EN 55022 (A)					
Safety	()	IEC 60950 / EN62040-1 / EN62040-2				
Cooling / Isolation		Forced / Doubled				
MTBF		240 000 hrs (MIL-217-F)				
Efficiency (Typical): Enhanced power conversion / on lin	e > 95.5% / > 89.5%	> 95.5% / > 89.5% 96.5% / 91% 96.5% / 92.5%				
Dielectric strength DC/AC		4300 Vdc				
		3 disconnection levels on AC out and DC in power ports				
True Redundant Systems – compliant		4 disconnection levels on AC in port				
RoHS		Compliant				
Vibration	GR63 office vibrati	GR63 office vibration 0 to 100 hz-0.1 g / transport vibration 5-100 Hz 0.5 g 100 to 500 hz-1.5 g / Drop test				
Operating conditions	Self adaptiv	Self adaptive to wide operating conditions and comprehensive table of troubleshooting codes				
Altitude above sea without de-rating		< 1500 m / derating > 1500 m - 0.8 % per 100 m				
Ambient / storage temperature / relative humidity		-20 to 50 ° C / -40 to 70 ° C / 95 %, non-condensing				
Material (casing)		Coated steel-ALU ZINC				
AC OUTPUT POWER						
Nominal Output power (VA) / (W)	1500 / 1200	1500 / 1200 2500 / 2000				
Short time overload capacity		150 % (15 seconds) 110 % permanent within T° range				
Admissible load power factor		Full power rating from 0 inductive to 0 capacitive				
Internal temperature management and switch off		Yes				
DC INPUT SPECIFICATIONS						
Nominal voltage (DC)	24 V	48 V	60 V	110 V	220 V	
Voltage range (DC)	19 – 35 V	40 - 60 V	48 - 72 V	90 - 160 V	170 - 300 V	
Nominal current	56 A (at 24 Vdc and 1200 W output)	56 A (at 40 Vdc and 2000 W output)	35 A (at 60 Vdc and 2000 W output	19 A (at 110 Vdc and 2000 W output)	9.8 A (at 220 Vdc an 2000 W output	
Maximum input current (for 15 second) / voltage ripple	84 A / < 100 mV rms	84 A / < 2 mV Psopho	52 A < 100 mV rms	29 A / < 200 mV rms	14.9 A / < 200 mV rms	
Input voltage boundaries		User	selectable with T2S into	erface		
AC INPUT SPECIFICATIONS						
Nominal voltage (AC)		230 V 1P or 3P (Min 3 shelves for 3P) 220 V				
Voltage range (AC)	150-265 V	150-265 V 150-265 V				
Brownout		150 to 185 V linear derating 150 VA/120 Watts per 10 Vac				
	1200 VA / 960 W	1200 V/A / 960 W				
	@ 150 Vac					
Conformity range		Adjustable				
Power factor		> 99%				
Frequency range (selectable) / synchronization range		50 – 60 Hz / range 47 – 53 Hz / 57 – 63 Hz				
AC OUTPUT SPECIFICATIONS						
Nominal voltage (AC*)		230 V				
Frequency / frequency accuracy		50 - 60 Hz / 0.03 %				
Total harmonic distortion (resistive load)		< 1.5 %				
Load impact recovery time		0.4 ms				
Turn on delay		20 s to 40 s depending on the number of module installed				
Nominal current. Protected against reverse current	6.6 A	10.9 A				
Crest factor at nominal power	00.1			. 1		
With short circuit management and protection	2.8 : 1		3	:1		
Short circuit clear up capacity		10 x I _n for 20 msec - Available while Mains is available at AC input port With magnitude control and management				
Short circuit current after clear up capacity		2.1 I _n during 15 s and 1.5 I _n after 15 s				
IN TRANSFER PERFORMANCE						
Max. voltage interruption / total transient voltage duration	(max)		0s/0s			
SIGNALING & SUPERVISION						
Display		Synoptic LED				
Alarms output / supervision	Dry contacts on sh	Dry contacts on shelf / Standard USB port and MODBUS on T2S, optional: Candis Display / Candis TCP-IP				
Remote on / off	2., 55.114515 511 611	on rear terminal of the shelf via T2S				
		Officer Committee of the Shell via 120				





*Operation within lower voltage networks leads to de-rating of power performances.

