



**20 kVA = 20 kW**

## MODULAR UPS W/ SMART BY-PASS

MODULE POWER 20 kVA - 20 kW  
 INPUT 3x400 Vac + N  
 OUTPUT 3x400 Vac + N

### DESCRIPTION

AGIL is a compact and scalable modular UPS providing a pure sine wave AC supply.

The "Twin Sine Innovation" (TSI) technology ensures independent "hot pluggable and hot swap" modules that include virtually all functions of a conventional UPS (AC/DC, DC/AC, battery charger, Static Switch), eliminating all potential single points of failure.

Up to 29 modules can be installed in parallel to bring the full output power potential to 580 kVA.

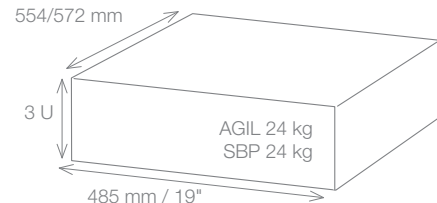
### APPLICATIONS

All traditional data centers applications that require flexibility in their power needs.

But also a large variety of applications where a multidirectional energy converter is required.



80 kVA AGIL modular UPS with SBP module



### MAIN FEATURES

- » Selectivity
- » Versatile charging
- » Battery sustainability
- » Harsh AC input conditions
- » High efficiency, certified by SGS

Illustrations are non-binding and may include customized fittings.

	AGIL 80	AGIL 160	AGIL 200	AGIL 400	AGIL 580
<b>GENERAL</b>					
EMC (immunity)	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	EN 62040-1-1				
EN62040-3 performance level	VFI-SS-111				
MTBF / Cooling	240 000 hrs / Forced				
Efficiency (Typical): Enhanced power conversion / on line	96% / 96% certified by SGS at 45% load				
True Redundant Systems – compliant	3 disconnection levels on AC out and DC in power ports 4 disconnection levels on AC in port				
RoHS	Compliant				
Vibration	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	Designed for installation in an IP20 or IP21 environment. When installed in a dusty or corrosive environment, appropriate measures (air filtering, ...) must be taken.				
Altitude above sea without de-rating	< 1500 m / derating > 1500 m – 0.8 % per 100 m				
Ambient / storage temperature / relative humidity	-10 to 40 °C / -40 to 70 °C / 95%, non-condensing				
Material (casing)	Coated steel-ALU ZINC-Front plate coated black RAL9005				
<b>AC OUTPUT POWER</b>					
Nominal Output power (VA) / (W)	80 kVA / 80 kW	160 kVA / 160 kW	200 kVA / 200 kW	400 kVA / 400 kW	580 kVA / 580 kW
Short time overload capacity (@PF 0.9)	150% - 15s   130% - 30s   120% - 60s   110% permanent				
Admissible load power factor	Full power rating from 0 inductive to 0 capacitive				
Internal temperature management and switch off	Yes				
<b>DC BATTERY SPECIFICATIONS</b>					
Nominal voltage (DC)	408 Vdc (204 cells VRLA) or 336 cells (NiCd)				
Voltage range (DC)	336 Vdc to 490 Vdc				
Nominal current (at 408 Vdc)	206 A	395 A	520 A	609 A	1500 A
Maximum input current (for 5 second) / voltage ripple	201 A / < 400m V rms	536 A / < 400m V rms	670 A / < 400m V rms	670 A / < 400m V rms	2144 A / < 400m V rms
Input voltage boundaries	User selectable with T4S interface				
<b>AC INPUT SPECIFICATIONS</b>					
Nominal voltage (AC)	3x380 / 400 / 415+Neutral 5 wires for 3 phases				
Voltage range (AC)	150 Vac to 275 Vac Line to Neutral (derating 150 to 220 Vac)				
Power factor	> 99%				
Frequency range (selectable) / synchronization range	50 or 60 Hz / range 30 to 70 Hz adjustable				
<b>AC OUTPUT SPECIFICATIONS</b>					
Nominal voltage (AC*)	3x380 / 400 / 415+Neutral 5 wires for 3 phases				
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 at 230 Vac	116 A per phase	232 A per phase	289 A per phase	609 A per phase	842 A per phase
Crest factor at nominal power	2.8 : 1				
With short circuit management and protection					
Short circuit clear up capacity	2900 A 20 ms per SBP module, above which the system will shut down if short-circuit still present				
<b>SUPERVISION</b>					
Display	Synoptic LED				
Alarms output / supervision	Dry contacts on T4S / MODBUS, TCP-IP, SNMP				
Remote on / off	On rear terminal of the shelf via T4S				
<b>Smart By Pass (SBP) MODULE</b>					
Nominal output power	200 kVA / 200 kW				
SBP in same cabinet	Standard	Standard	n/a	n/a	n/a
SBP in external cabinet	Option	Option	Standard	Standard	Standard
Number of SBP modules	1 (200 kVA)	Standard	Standard	Standard	n/a
	2 (400 kVA)	Option	Option	Option	Standard
	3 (580 kVA)	Option	Option	Option	Standard
Transfer time	AGIL to SBP - max 5 ms, typically 2 ms   SBP to AGIL - 0 ms				
Short time overload capacity	1 x SBP : 300kVA for 10 minutes / 400kVA for 1 minute 2 x SBP : 600kVA for 10 minutes / 800kVA for 1 minute 3 x SBP: 900kVA for 10 minutes / 1200kVA for 1 minute				
<b>CABINETS</b>					
Dimensions (WxHxD) with external MBP	600 x 1800 x 800 mm	600 x 2100 x 800 mm	1200 x 2100 x 800 mm	1800 x 2100 x 800 mm	2400 x 2100 x 800 mm
Number of cabinets	1	1	1+1 (for external MBP)	2+1 (for external MBP)	3+1 (for external MBP)

TSI AGIL+SBP - Datasheet v1.6 Specifications can change without notice. New data will be updated on our Web site: [www.cet-power.com](http://www.cet-power.com). The present equipment is protected by several international patents, trademarks and copyrights.

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

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Leading AC Backup Technology

