

AGIL SBP

INPUT
OUTPUT
MODULE POWER

MODULAR UPS

3-Phase 3x400 Vac + N
3-Phase 3x400 Vac + N
20 kVA – 20 kW
SMART BY-PASS

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



DESCRIPTION

- 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 max 580kVA in 3P->3P.

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.

MAIN FEATURES

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

ALBAT provide completely Design by your technical request, Production, Assembly and Service in warranty and after-warranty period.

The production process is in accordance with the standards ISO 9001:2008 and ISO 14001:2004. All products are in compliance with IEC and EN standards.

AGIL SBP



Technical specification

Model	AGIL 80	AGIL 160	AGIL 200	AGIL 400	AGIL 580
AC OUTPUT SPECIFICATIONS					
Nominal output power VA / W	80 / 80	160 / 160	200 / 200	400 / 400	580 / 580
Short time overload capacity %	Depends on the number of installed SBP modules: 1: 300kVA for 10 minutes / 400kVA for 1 minute 2: 600kVA for 10 minutes / 800kVA for 1 minute 3: 900kVA for 10 minutes / 1200kVA for 1 minute				
Admissible load power factor	Full power rating from 0 inductive to 0 capacitive				
Internal temperature management and switch off	Yes				
Nominal voltage V	3 x 380 / 400 / 415 + N 5 wires for 3 phases				
Frequency Hz	50 / 60				
Frequency accuracy %	0,03				
Efficiency EPC / ON Line %	96 / 96 certified by SGS at 45% load				
Total harmonic distortion (resistive load) %	<1,5				
Load impact recovery time ms	0,4				
Torn on delay s	20 to 40 depending on the number of module installed				
Nominal current at 230 Vac - A	116 per phase	232 per phase	289 per phase	609 per phase	842 per phase
Crest factor at nominal power, with short circuit management and protection	2.8 : 1				
Short circuit clear up capacity	2900 A 20 ms per SBP module, above which the system will shut down if short-circuit still present				
DC BATTERY SPECIFICATIONS					
Nominal voltage Vdc	408 (204 cells VRLA or 336 cells NiCd)				
Voltage range Vdc	336 – 490				
Nominal current A (at 408 Vdc)	206	395	520	609	1500
Max input current A (for 5 seconds) / Voltage ripple mV rms	201 / < 400	536 / < 400	670 / < 400	670 / < 400	2144 / < 400
Input voltage boundaries	User selectable with T4S				
AC INPUT SPECIFICATIONS					
Nominal voltage Vac	3 x 380 / 400 / 415 + N 5 wires for 3 phases				
Voltage range Vac	150 to 275 line to neutral (derating 150 to 220)				
Conformity range before transfer to DC	Adjustable				
Power factor %	>99				
Frequency Hz	50 or 60				
Synchronisation range Hz	30 to 70 adjustable				
IN TRANSFER PERFORMANCE					
Transfer time AGIL -> SBP	Max 5 ms, typical 2 ms				
Transfer time SBP -> AGIL	0 s				
SUPERVISION					
Display	Synoptic LED				
Alarms output	Dry contacts on T4S				
Supervision	MODBUS, TCP-IP, SNMP				
Remonet on / off	On rear terminal of the shelf via T4s				
SMART BY-PASS					
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 (200kVA)	Standard	Standard	Standard	n/a	n/a
2 (400kVA)	Option	Option	Option	Standard	n/a
3 (580kVA)	Option	Option	Option	Option	Standard

MECHANICAL					
Cabinet dimension mm (or different per technical request)	600 x 600 x 1800	600 x 800 x 2100	1200 x 800 x 2100	1800 x 800 x 2100	2400 x 800 x 2100
Dimension of modules	19" x 3U x 515 mm				
Nbr of cabinets	1	1	1+1 (for external MBP)	2+1 (for external MBP)	3+1 (for external MBP)
Cabinet protection	IP 21 or IP 21 (standard or AIR-conditioned or Seismic resistance) / or different per technical request				
Colour	RAL 9005				
PERFORMANCE / FEATURES					
True redundant systems	3 disconnection levels on AC out and DC in power ports; 4 disconnection levels on AC in port				
MTBF hrs	240 000				
Cooling	Forced				
Vibration	GP63 office vibration 0 to 100 hz-0.1 g				
ENVIRONMENTAL					
Standard temperature °C	-10 to +40				
Humidity %	0 to 95 RH non-condensing				
Elevation m	Up to 1500 without de-rating / derating > 1500 -0,8 per 100 m				
AGENCY COMPLIANCE					
Safety	EN 62040-1-1				
EMC / Emission	EN 55022 (A)				
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				
EN 62040-3 performance level	VFI-SS-111				
RoHS	Compliant				