

AGIL TRI TRI

INPUT
OUTPUT
MODULE POWER

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



MODULAR UPS

3-Phase 3x400 Vac + N
3-Phase 3x400 Vac + N
20 kVA – 20 kW

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 32 modules can be installed in parallel to bring the full output power potential to max 640kVA 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.

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Technical specification

Model	AGIL 20	AGIL 60	AGIL 160	AGIL 200	AGIL 640
AC OUTPUT SPECIFICATIONS					
Nominal output power VA / W	20 / 20	60 / 60	160 / 160	200 / 200	640 / 640
Short time overload capacity %	150 - 15 sec / 130 - 30 sec / 120 - 60 sec / 110 - permanent				
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	29 per phase	87 per phase	232 per phase	290 per phase	928 per phase
Crest factor at nominal power	2.8 : 1				
Short circuit clear up capacity	5 x In for 20 ms – available while mains is available at AC input port; with magnitude control and management				
Short circuit current on battery, per phase	53 A 20 ms – 38 A rms 15 sec				
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)	52	156	416	520	1664
Max input current A (for 5 seconds) / Voltage ripple mV rms	67 / < 400	201 / < 400	536 / < 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					
Max voltage interruption	0 s				
Total transient voltage duration	0 s				
SIGNALING & 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				
MECHANICAL					
Cabinet dimension mm	600 x 800 x 2100 / or different per technical request				2400 x 800 x 2100
Dimension of modules	19" x 3U x 515 mm				
Nbr of cabinets	1	1	1	1+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