

**GENESYS™ AC**

Genesys™ AC

Programmable AC Sources

Reliable High-Performance power from 2 to 45kVA

Features

- Highest power density in full featured 1U form-factor
- Up to 3kVA in 1U and 9kVA 3 Phase in 3U units
- Power up to 45kVA in 15U, user expandable and configurable
- 0-360VAC per phase, 0-623V L-L in three-phase modes
- Output is single operating range
- High crest factor / peak current
- Intuitive full color and responsive touch panel interface
- Black panel and Blank(ATE) versions available
- Software and hardware interfaces included standard
- PRO models provide advanced functions
 - Added DC capability ± 510 VDC
 - Available 5000Hz Operating Range
 - Full rated current and full power in DC operation
 - Real time analog control

High Performance Programmable AC Power

COMMON RATINGS	Genesys™ AC	Genesys™ AC-PRO
Operating Modes	AC	AC, DC, AC+DC
AC Voltage Range	0-360 VAC L-N	
Output Frequency	16~1200 Hz	16-1200 Hz (16-5000Hz option)
Load PF	0 - 1 Leading or Lagging	
DC Voltage Range	N/A	±510 VDC
Input Power Options	Single Phase (2&3kVA): 85-265VAC (Derate to 1.5kVA below 170VAC) / Three Phase: 170-265 or 342-528 VAC	

2 and 3kVA / 1U Models



OUTPUT RATINGS	Genesys™ AC Models		Genesys™ AC-PRO Models	
	GAC-02	GAC-03	GAC-PRO 02	GAC-PRO 03
AC Power	2000VA	3000VA	2000VA	3000VA
Phases	Single Phase per unit			
AC Current	0-20A	0-30A	0-20A	0-30A
Peak AC Current (Crest Factor)	120 A (6:1 CF)	120 A (4:1 CF)	120 A (6:1 CF)	120 A (4:1 CF)
DC Power	N/A		2000W	3000W
DC Current Range	N/A		0-20A DC	0-30A DC
Form Factor / Dimensions	1U / H: 44 x W: 423 x D: 544.5mm (1.72" x 16.65" x 21.5") / <8kg (18lbs)			

6 and 9kVA / 3 Phase / 3U Models



OUTPUT RATINGS	Genesys™ AC Models		Genesys™ AC-PRO Models	
	GAC-06	GAC-09	GAC-PRO 06	GAC-PRO 09
AC Power	6000VA	9000VA	6000VA	9000VA
Phases	Three, Split or Single Phase operation			
AC Voltage Range Per Phase	0-360 VAC L-N (0-623V L-L)			
AC Current per Phase (Single Phase)	0-20A (0-60A)	0-30A (0-90A)	0-20A (0-60A)	0-30A (0-90A)
Peak AC Current Per Phase (Single Phase)	120A (360A)	120A (360A)	120A (360A)	120A (360A)
DC Power	N/A		6000W	9000W
DC Current Range	N/A		0-60A DC	0-90A DC
Form Factor / Dimensions / Wt	3U / H: 134 x W: 423 x D: 570mm (5.25" x 16.65" x 22.5") / <25kg (56lbs)			

Up to 45kVA w/addition of 9kVA Power (Booster) Units

OUTPUT RATINGS (per Each Unit added to existing GAC)	Genesys™ AC Power Unit GAC-PWR-09
AC Power	9000VA
Phases	Three, Split or Single Phase
AC Current per Phase (Single Phase)	0-30A (0-90A)
Peak AC Current Per Phase (Single Phase)	120A (360A)
DC Power	9000W
DC Current Range	0-90A DC
Form Factor / Wt	3U / <25kg (56lbs)



36kVA Power
Example
GAC-36

One GAC-09 Main
Three GAC-PWR-09
12U Rack Space

Common Features and options

MEASUREMENT AND ANALYSIS
AC / DC Voltage
RMS / DC Current
Peak Current
Power (Real & Apparent)
Harmonics Frequency (Harmonic #)

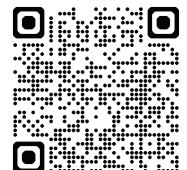
PROGRAMMING AND READBACK
LAN / USB / RS232 / RS485
Analog Monitoring w/ Parametric Control
GAC-PRO : Real Time Analog
Optional : IEEE GPIB

AVAILABLE PRE-PROGRAMMED TEST STANDARDS
1. IEC 61000- 4-11 / 13 / 14 / 17 / 27 / 28 / 29 / 34
2. MIL-STD-1399-300 P1 & MIL-STD-704
3. RCTA/DO-160 & A350 (ABD100.1.8.1)

For more details visit : www.us.lambda.tdk.com/genesysac

All Parameters are for reference and subject to change. Please refer to latest specifications and user manuals to confirm any critical values

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D0013096 rev 04
2K26F