



The Genesys™ AC series of AC and AC+DC Sources offer high performance and versatility combined with feature rich multi-function local controls, standard USB/LAN and analog interfaces.

Features

- Up to 3kVA in 1U and 9kVA 3 Phase in 3U
- Highest power density in full featured 1U form-factor
- User Parallelable to 27kW single and multi-phase
- 0-350VAC per phase in a single operating range
- Intuitive full color and responsive touch panel interface
- Software and hardware interfaces included standard
- Very high crest factor / peak current over entire Voltage range 0-350V
- PRO models provide advanced functions
 - AC+DC with -500 to +500 VDC
 - Available 5000Hz Operating Range
 - Full rated current and full power in DC operation
 - Real time analog control

High Performance Programmable AC Power

2 and 3kVA 1U Models



OUTPUT RATING	Genesys™ AC Models		Genesys™ AC-PRO Models	
	GAC-02	GAC-03	GAC-PRO 02	GAC-PRO 03
1. AC Power	2000VA	3000VA	2000VA	3000VA
2. Operating Modes	AC		AC, DC, AC+DC	
3. Phases	Single Phase per unit			
4. AC Voltage Range	0-350 VAC			
5. AC Current	0-20A	0-30A	0-20A	0-30A
6. Output Frequency	16~1200 Hz		16-1200 Hz (16-5000Hz option)	
7. 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)
8. Load PF	0 - 1 Leading or Lagging			
9. DC Power	N/A		2000W	3000W
10. DC Voltage Range	N/A		-500 VDC ~ +500 VDC	
11. DC Current Range	N/A		0-20A DC	0-30A DC
MECHANICAL				
12. Form Factor / Dimensions	EIC 1U, Aluminum Chassis / 43.6mm x W: 423mm x D: 544.5mm (H 1.72" x W: 16.65" x D: 21.5")			

6 and 9kVA 3 Phase, 3U Models



OUTPUT RATING	Genesys™ AC Models		Genesys™ AC-PRO Models	
	GAC-06	GAC-09	GAC-PRO 06	GAC-PRO 09
1. AC Power	6000VA	9000VA	6000VA	9000VA
2. Operating Modes	AC		AC, DC, AC+DC	
3. Phases	Three, Split or Single Phase operation			
4. AC Voltage Range Per Phase (L-L)	0-350 VAC (0-606V)			
5. AC Current per Phase (Single Phase)	0-20A (0-60A)	0-30A (0-90A)	0-20A (0-60A)	0-30A (0-90A)
6. Output Frequency	16~1200 Hz		16-1200 Hz (16-5000Hz option)	
7. Peak AC Current Per Phase (Single Phase)	120A (360A)	120A (360A)	120A (360A)	120A (360A)
8. Load PF	0 - 1 Leading or Lagging			
9. DC Power	N/A		6000W	9000W
10. DC Voltage Range	N/A		-500 VDC ~ +500 VDC	
11. DC Current Range	N/A		0-60A DC	0-90A DC
MECHANICAL				
12. Form Factor / Dimensions	EIC 3U, Aluminum Chassis / 133.4mm x W: 423mm x D: 570mm (H 5.25" x W: 16.65" x D: 22.5")			

Common Parameters

INPUT CHARACTERISTICS				
1. Available Configurations		Single phase: 85-265VAC (Derate to 1.5kVA below 170VAC), Three Phase: 170-265 VAC or 342-528 VAC		
2. Efficiency / Power Factor		> 85% / Single-phase input PF > 0.98 Three-phase input PF >0.94		
PROGRAMMING AND READBACK				
1. Standard		LAN / USB / RS232 / RS485	LAN / USB / RS232 / RS485	
		Analog Monitoring w/ Parametric Control	Analog Monitoring w/ Parametric and Real-Time Control	
AVAILABLE PRE-PROGRAMMED TEST STANDARDS				
1. IEC		IEC 61000- 4-11 & 13	IEC 61000- 4-11 & 13	
2. MIL-SPC		N/A	MIL-STD-1399-300 P1, MIL-STD-704	
3. Aero		N/A	RCTA/DO-160, A350	
MEASUREMENT AND ANALYSIS				
1. AC / DC Voltage		≤ 0.2 % FS	4. Power (Real & Apparent)	≤ 2.25% (≤ 4.5% DC)
2. RMS / DC Current		≤ 1.0 % FS (0.6% FS 3&9kVA)	5. Harmonics Frequency (Harmonic #)	32-50,000Hz (2-50th)
3. Peak Current		≤ 1.5%		

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

