Genesys™ 3U 10kW Specifications

1.0 MODEL	GEN	7.5-1000	10-1000	12.5-800	20-500	25-400	30-333	40-250	50-200	60-167	80-125	100-100	125-80	10kW
1.Rated Output Voltage	VDC	7.5	10	12.5	20	25	30	40	50	60	80	100	125	X
2.Rated Output Current	ADC	1000	1000	800	500	400	333	250	200	167	125	100	80	X
3.Rated Output Power	kW	0.75	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	X
4.Efficiency (min) at low AC line, 100% Rated Load	%	77	83											X
	Contact Factory for other models													X

1.1 CONSTANT VOLTAGE MODE (CV)

1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 600V; 0.05% - 600V < Vor ≤ 1500V)	mV	7.5	10	12.5	20	25	30	4	5	6	8	10	12.5	X
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤ 600V; 0.1% - 600V < Vor ≤ 1500V)	mV	7.5	10	12.5	20	25	30	8	10	12	16	20	25	X
3. Ripple, rms, 5Hz~1MHz, CV (*1)	mV	20	20	20	20	20	20	20	20	20	25	25	25	X
4. Output Noise, p-p, (20MHz), CV (*1)	mV	60	60	60	60	60	60	60	75	75	100	100	125	X
5.Remote Sense Compensation / Wire	V	1	1	1	1	1	1.5	2	3	3	4	5	5	X
6. Temperature Stability	---	± 0.05% of Vo(rated) over 8 hours after 30 minute warm up (constant Line, Load & Temperature)												X
7. Temperature Coefficient	ppm / °C	± 200 (± 0.02% of Vo Rated) / °C												X
8. Up-Prog. Response Time, 0 ~ Vomax, full-load	ms	100												X
9. Up-Prog. Response Time, 0~Vomax, no-load	ms	50												X
10. Transient Response Time (CV mode) (*2)	ms	Less than 3												X

1.2 CONSTANT CURRENT MODE (CC)

1. Max. Line Reg. (0.1% - Ior ≥ 333A; 0.050% - 17A < Ior < 333A; 0.15% - Ior < 17A)	mA	1000	1000	800	500	400	333	125	100	83.5	62.5	50	40	X
2. Max. Load Reg (0.1% - Ior ≥ 333A; 0.075% - 17A ≤ Ior < 333A; 0.2% - Ior < 17A) (*3)	mA	1000	1000	800	500	400	333	188	150	125	94	75	60	X
3. Ripple rms, 5Hz~1MHz, CC	mA	5300	4000	2560	1000	640	444	250	160	67	50	40	32	X
4. Temperature Stability	---	± 0.05% of Io(rated) over 8 hours after 30 minute warm up (constant Line, Load & Temperature)												X
5. Temperature Coefficient	ppm/°C	± 300 (± 0.03% of Io Rated) / °C												X

1.3 PROTECTIVE FUNCTIONS

1. OCP	%	0 ~ 100	X
2. OCP type	---	Constant current	X
3. Foldback Protection (FOLD)	---	Output shutdown; Manual reset by front panel OUT button or Digital communication, user-selectable	X
4. Foldback Response Time	S	Less than 1 (Min = 0.25 / Max = 25 / Default = 0.25); Settable via "FBD" command	X
5. OVP type	---	Inverter shut-down; Manual reset by AC On/Off recycle, OUT button, Remote Analog or Digital commuincation	X
6. OVP Programming Accuracy	%	± 5% of Vo(rated)	X
7. OVP Trip Point	V	5% to 105% of Vo(rated) - for Vor ≤ 600V; 10% to 105% of Vo(rated) - 600V < Vor ≤ 1500V; Shall always be greater than 105% of Vo(setting); Default = 105% of Vo(rated).	X
8. OVP Response Time	ms	Less than 10 (for Output to begin to drop) for Vor ≤ 600V; Less than 2.0 (for Output to begin to drop) for 600V < Vor ≤ 1500V.	X
9. Max. OVP Reset Time	s	7 (from AC On/Off switch turn On)	X
10. Over-Temperature Protection (OTP)	---	Shut down if internal temperature exceeds safe operating levels (Latched: Safe-mode / Unlatched: Auto-mode)	X
11. Phase-Loss Protection	---	Yes, power supply shutdown (Latched: Safe-mode / Unlatched: Auto-mode)	X

1.4 REMOTE ANALOG CONTROLS & SIGNALS

1. Vout Voltage Programming	0~100%, 0 ~ 5V or 0 ~ 10V, user-selectable., Accuracy & Linearity: ±1% of Vo(rated)	X
2. Iout Voltage Programming	0~100%, 0 ~ 5V or 0 ~ 10V, user-selectable, Accuracy & Linearity: ± 1% of Io(rated)	X
3. Vout Resistor Programming	0~100%, 0 ~ 5/10kohm full-scale, user-selectable, Accuracy & Linearity: ± 1% of Vo(rated)	X
4. Iout Resistor Programming	0~100%, 0 ~ 5/10kohm full-scale, user-selectable, Accuracy & Linearity: ± 1% of Io(rated)	X
5. Shut-Off (SO) Control (rear panel)	By Voltage: 0.6V = Disable, 2-15V = Enable (default) or Dry Contact: Open = EN, Short = DIS (user-selectable logic)	X
6. Output Current Monitor	0 ~ 5V or 0 ~ 10V, Accuracy: ± 1% of Io(rated), user-selectable	X
7. Output Voltage Monitor	0 ~ 5V or 0 ~ 10V, Accuracy: ± 1% of Vo(rated), user-selectable	X
8. Power Supply OK (PS_OK) Signal	Yes. TTL High = OK, 0V = Fail (500ohm series impedance)	X
9. CV/CC Signal	CV: TTL High (4 ~ 5V), Max source current = 10mA; CC: TTL Low (0 ~ 0.4V), Max sink current = 10mA	X
10. Enable/Disable	Dry contact; Open = Off, Short = On; Max. voltage across Enable/Disable contacts = 6V	X
11. Remote/Local Selection	Selects Remote or Local operation by voltage: 0 ~ 0.6V = Local / 2 ~ 15V = Remote	X
12. Remote/Local Signal	Signals operating mode; Open collector: Local = Open (Max voltage = 30V), Remote = On (Max sink current = 10mA)	X

1.5 FRONT PANEL

1.Control Functions	Vout/ Iout manual adjust by separate encoders (coarse and fine adjustment selectable)	X
	OVP/UVL manual adjust by Voltage Adjust encoder, Front Panel Lock/Unlock	X
	Address selection by Voltage Adjust encoder. # of addresses = 31	X
	AC ON/OFF, Output On/Off, Restart Modes (Auto/Safe), Foldback Control (CV to CC), Go-to-Local	X
	RS-232/RS-485, IEEE (IEMD) and LAN selection by rear panel DIP-switch	X
	Baud rate selection (RS-232/RS-485 only): 1200, 2400, 4800, 9600 and 19,200 (by current adjust encoder)	X
	Advanced Parallel Master/Slave: Hx = Master unit, where x = # of Slave units (0 to 4), S = Slave unit(s)	X
2.Display	Voltage: 4 digits, Accuracy: ± 0.5% of Vo(rated) ±1 count	X
	Current: 4 digits, Accuracy: ± 0.5% of Io(rated) ±1 count	X
	Voltmeter displays voltage at power supply (Local sense) or at load (Remote sense)	X
3.Indications	Green LED's: PREVIEW, FOLD, REM/LOCAL, OUT ON/OFF, CV/CC, FINE Red LED: ALRM (OVP, OTP, FOLD, AC FAIL, ENA, SO)	X

1.6 DIGITAL PROGRAMMING & READBACK

1. Vout Programming Accuracy	± 0.5% of rated Output voltage	X
2. Iout Programming Accuracy	± 0.5% of rated Output current for units with Io < 187.5A; ± 0.7% of rated Output current for Io ≥187.5A	X
3. Vout Programming Resolution	0.02% of Vo(rated)	X
4. Iout Programming Resolution	0.04% of Io(rated)	X
5. Vout Readback Accuracy	± (0.1% of Vo(actual) + 0.2% of Vo(rated))	X
6. Iout Readback Accuracy	± (0.1% of Io(actual) + 0.4% of Io(rated))	X
7. Vout Readback Resolution	0.02% of Vo(rated)	X
8. Iout Readback Resolution	0.02% of Io(rated)	X
9. OV Response Time	20ms maximum (between Vout exceeding IEEE Limit and supply Inhibit turning On)	X
10. Other Functions	Set OVP/UVL limits; Set Local/Remote, Operating parameters and Status, Get Identity	X

*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input, per EIJ R9002A.
*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100-50% of Io(rated).
*3 .From 20% - 100% for models with Ior < 17A.
All specifications subject to change without notice.

Genesys™ 3U 10kW Specifications

1.0 MODEL	GEN	150-66	200-50	250-40	300-33	400-25	500-20	600-17	800-12.5	1000-10	1250-8	1500-6.7	10kW
1.Rated Output Voltage	VDC	150	200	250	300	400	500	600	800*	1000*	1250*	1500*	X
2.Rated Output Current	ADC	66	50	40	33	25	20	17	12.5	10	8.0	6.7	X
3.Rated Output Power	kW	9.9	10.0	10.0	9.9	10.0	10.0	10.2	10.0	10.0	10.0	10.0	X
4.Efficiency (min) at low AC line, 100% Rated Load	%	83							93.5				X
1.1 CONSTANT VOLTAGE MODE (CV)	Contact Factory for other models												X
1. Max. Line Reg (0.1% - Vor ≤ 30V; 0.01% - 30V < Vor ≤ 600V; 0.05% - 600V < Vor ≤ 1500V)	mV	15	20	25	30	40	50	60	400	500	625	750	X
2. Max. Load Reg (0.1% - Vor ≤ 30V; 0.02% - 30V < Vor ≤ 600V; 0.1% - 600V < Vor ≤ 1500V)	mV	30	40	50	60	80	100	120	800	1000	1250	1500	X
3. Ripple, r.m.s, 5Hz~1MHz, CV (*1)	mV	25	35	35	60	60	60	60	80	100	120	140	X
4. Output Noise, p-p (20MHz), CV (*1)	mV	150	175	200	200	300	350	350	700	800	1000	1400	X
5.Remote Sense Compensation / Wire	V	5	5	5	5	5	5	5	5	5	5	5	X
6. Temperature Stability	---	± 0.05% of Vo(rated) over 8 hours after 30 minute warm up (constant Line, Load & Temperature)											X
7. Temperature Coefficient	ppm / °C	± 200 (0.02% of Vo Rated) / °C											X
8. Up-Prog. Response Time, 0~Vomax, full-load	mS	100							17				X
9. Up-Prog. Response Time, 0~Vomax, no load	mS	50							17				X
10. Transient Response Time (CV mode) (*2)	mS	Less than 3							Less than 1				X
1.2 CONSTANT CURRENT MODE (CC)													
1. Max. Line Reg. (0.1% - Ior ≥ 333A; 0.050% - 17A < Ior < 333A; 0.15% - Ior < 17A)	mA	33	25	20	17	13	10	9	19	15	12	10	X
2. Max. Load Reg (0.1% - Ior ≥ 333A; 0.075% - 17A ≤ Ior < 333A; 0.2% - Ior < 17A) (*3)	mA	50	38	30	25	19	15	13	25	20	15	14	X
3. Ripple rms, 5Hz~1MHz, CC	mA	26	20	16	13	10	8	7	15	10	6	4	X
4. Temperature Stability	---	± 0.05% of Io Rated over 8 hours after 30 minute warm up (constant Line, Load & Temperature)											X
5. Temperature Coefficient	ppm / °C	± 300 (0.03% of Io Rated) / °C											X

1.3 PROTECTIVE FUNCTIONS			
1. OCP	%	0 ~ 100	X
2. OCP type	---	Constant current	X
3. Foldback Protection (FOLD)	---	Output shut down; Manual reset by front panel OUT button or Digital communication, user-selectable	X
4. Foldback Response Time	S	Less than 1 (Min = 0.25 / Max = 25 / Default = 0.25); Settable via "FBD" command	X
5. OVP type	---	Inverter shut-down; Manual reset by AC On/Off recycle, OUT button, Remote Analog or Digital comm.	X
6. OVP Programming Accuracy	%	± 5% of Vo(rated)	X
7. OVP Trip Point	V	5% to 105% of Vo(rated) - for Vor ≤ 600V; 10% to 105% of Vo(rated) - 600V < Vor ≤ 1500V; Shall always be greater than 105% of Vo(setting); Default = 105% of Vo(rated).	
8. OVP response time	mS	Less than 10 (for Output to begin to drop) for Vor ≤ 600V; Less than 2.0 (for Output to begin to drop) for 600V < Vor ≤ 1500V.	X
9. Max. OVP reset time	S	7 (from AC On/Off switch turn On)	X
10. Over-Temperature Protection (OTP)	---	Shut down if internal temperature exceeds safe operating levels. (Latched: Safe / Unlatched: Auto)	X
11. Phase-Loss Protection	---	Yes, power supply shutdown (Latched: Safe-mode / Unlatched: Auto-mode)	X

1.4 REMOTE ANALOG CONTROLS & SIGNALS		
1. Vout Voltage Programming	0~100%, 0 ~ 5V or 0 ~ 10V, user-selectable, Accuracy & Linearity: ± 1% of Vo(rated)	X
2. Iout Voltage Programming	0 ~ 100%, 0~5V or 0 ~ 10V, user-selectable. Accuracy & Linearity ± 1% of Io(rated)	X
3. Vout resistor programming	0~100%, 0~5/10kohm full-scale, user-selectable. Accuracy & Linearity ± 1% of Vo(rated)	X
4. Iout Resistor Programming	0~100%, 0~5/10kohm full-scale, user-selectable. Accuracy & Linearity ± 1% of Io(rated)	X
5. Shut-Off (SO) Control (rear panel)	By Voltage: 0.6V = Disable, 2-15V = Enable (default) or Dry Contact : Open = ENA, Short = DIS (user-selectable logic)	X
6. Output Current Monitor	0 ~ 5V or 0 ~ 10V, Accuracy: ± 1% of Io(rated), user-selectable	X
7. Output Voltage Monitor	0 ~ 5V or 0 ~ 10V, Accuracy: ± 1% of Vo(rated), user-selectable	X
8. Power Supply OK (PS_OK) Signal	Yes. TTL high = OK, 0V = Fail (500ohm series impedance)	X
9. CV/CC Signal	CV: TTL High (4 ~ 5V), Max source current = 10mA; CC: TTL Low (0 ~ 0.4V), Max sink current = 10mA	X
10. Enable/Disable	Dry contact; Open = Off, Short = On; Max. voltage across Enable/Disable contacts = 6V	X
11. Remote/Local Selection	Selects Remote or Local operation by voltage: 0 ~ 0.6V = Local / 2 ~ 15V = Remote	X
12. Remote/Local Signal	Signals operating mode; Open collector: Local = Open (Max voltage = 30V), Remote = On (Max sink current = 10mA)	X

1.5 FRONT PANEL		
1.Control Functions	Vout/ Iout manual adjust by separate encoders (coarse and fine adjustment selectable)	X
	OVP/UVL manual adjust by Voltage Adjust encoder, Front Panel Lock/Unlock	X
	Address selection by Voltage Adjust encoder. # of addresses = 31	X
	AC ON/OFF, Output On/Off, Restart Modes (Auto/Safe), Foldback Control (CV to CC), Go-to-Local	X
	RS-232/RS-485, IEEE (IEMD) and LAN selection by rear-panel DIP-switch	X
	Baud rate selection (RS-232/RS-485 only): 1200, 2400, 4800, 9600 and 19,200 (by current adjust encoder)	X
	Advanced Parallel Master/Slave: Hx = Master unit, where x = # of Slave units (0 to 4), Slave = Slave unit(s)	X
2.Display	Voltage: 4 digits, Accuracy: ± 0.5% of Vo(rated) ±1 count	X
	Current: 4 digits, Accuracy: ± 0.5% of Io(rated) ±1 count	X
	Voltmeter displays voltage at power supply (Local sense) or at load (Remote sense)	X
3.Indications	Green LED's: PREVIEW, FOLD, REM/LOCAL, OUT ON/OFF, CV/CC, FINE Red LED: ALRM (OVP, OTP, FOLD, AC FAIL, ENA, SO)	X

1.6 DIGITAL PROGRAMMING & READBACK		
1. Vout Programming Accuracy	± 0.5% of rated Output voltage	X
2. Iout Programming Accuracy	± 0.5% of rated Output current for units with Io < 187.5A; ± 0.7% of rated Output current for Io ≥187.5A	X
3. Vout Programming Resolution	0.02% of Vo(rated)	X
4. Iout Programming Resolution	0.04% of Io(rated)	X
5. Vout Readback Accuracy	± (0.1% of Vo(actual) + 0.2% of Vo(rated))	X
6. Iout Readback Accuracy	± (0.1% of Vo(actual) + 0.4% of Vo(rated))	X
7. Vout Readback Resolution	0.02% of Vo(rated)	X
8. Iout Readback Resolution	0.02% of Io(rated)	X
9. OV Response Time	20mS maximum (between Vout exceeding IEEE Limit and supply Inhibit turning On)	X
10. Other Functions	Set OVP/UVL limits; Set Local/Remote, Operating Parameters and Status; Get Identity	X

*800V - 1500V models (10kW) only available with 400VA and 480VAC input. For 208VAC Input models please contact the factory.
*1. Ripple and Noise at Vo(rated) and rated Load, Ta = 25C and nominal AC input. per EIJ R9002A
*2. Time for the Output voltage to recover within 2% of rating for a load current change of 50~100% or 100~50% of Io(rated).
*3. From 20% - 100% for models with Ior < 17A.
All specifications subject to change without notice.

General Specifications, Genesys™ 3U 10kW/15kW

2.1 INPUT CHARACTERISTICS		
1. Input Voltage / Frequency (range)	---	208VAC (180-253), 400VAC (360-440 , 342-440 (select 10kW/15kW models)), 480VAC (432-528); 47-63Hz (all)
2. No. of phases	---	3-Phase (Wye or Delta) 4 wire total (3-Phase and 1 protective Earth ground)
3. Dropout Voltage	V	180 / 360, 342 (select models) / 432; select models (10kW): 800V-1500V, select models (15kW): 30V-50V, 800V-1500V
4. Input Current (180VAC/360 or 342VAC/432VAC)	Arms	10kW - 45/23/20 (Vout ≤ 600V); N/A/23/20 (800V ≤ Vout ≤ 1500V) - at full rated Output power 15kW - 64/32/27 (Vout ≤ 600V); N/A/32/27 (800V ≤ Vout ≤ 1500V) - at full rated Output power
5. Inrush Current	A	Not to exceed full rated Input current (see para. above)
6. Power Facto	---	0.88 Passive (typical)
7. Leakage Current	mA	3.5 (EN60950) max.
8. Input Protection	---	208VAC: circuit breaker (Vout ≤ 600V); 400VAC/480VAC (all models) - line fuse
9. Input Overvoltage Protection	---	Unit shall not be damaged by line overvoltage of 120% nominal AC input voltage with maximum duration of 100usec.
10. Phase Imbalance	%	≤ 5% on Three-Phase Input

2.2 POWER SUPPLY CONFIGURATION	
1. Parallel Operation	Up to four (4) identical units may be connected in Master/Slave Mode with single wire connection (*3). In Advanced-Parallel feature, the current of Master unit multiplied by number of units connected in parallel, is available via digital interface and displayed on the front panel display of the Master unit. Remote Analog current monitor of the Master is scaled to the Output current of the Master unit (only).
2. Series Operation	Possible (with external diodes); Up to two identical units with total Output voltage not to exceed ± 600V from Chassis ground (for Vor ≤ 600V); not to exceed ± 1500V from Chassis ground (for 600V < Vor ≤ 1500V).

2.3 ENVIRONMENTAL CONDITIONS	
1. Operating Temperature	0 ~ +50°C, 100% load
2. Storage Temperature	-20 ~ +70°C
3. Operating Humidity	20 ~ 80% RH (non-condensing)
4. Storage Humidity	10 ~ 90% RH (non-condensing)
5. Vibration & Shock	ASTM D4169, Standard Practice for Performance Testing of Shipping Containers and Systems, Shipping Unit: Single Package Assurance Level: Level II; Acceptance Criteria: Criterion 1 - No product damage Criterion 2 - Packaging is intact, Distribution Cycle: 12 - Air (intercity) and motor freight (local), unitized is used.
6. Altitude	Operating: +50°C up to 7500 ft. (2500m), +45°C from 7501 to 10,000ft (2501m - 3000m), Non-Operating 40,000 ft (12,000m)
7. Audible Noise	65dBA at Io(rated) (measured 1m from front panel)

2.4 EMC (*4)

1. 208VAC Input	**CE Mark**
1. ESD	EN61000-4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients	EN61000-4-4 (IEC 1000-4-3)
3. Surge Immunity	EN61000-4-5 (IEC 1000-4-5)
4. Conducted Immunity	EN61000-4-6 (IEC 1000-4-6)
5. Radiated Immunity	EN61000-4-3 (IEC 1000-4-3)
6. Power Frequency Magnetic Field	EN61000-4-8
7. Conducted Emissions	EN55011A, FCC part 15J-A
8. Radiated Emissions	EN55011A, FCC part 15J-A
2. 400VAC/480VAC (*4) Input	**CE Mark**
1. ESD	EN61000-4-2 (IEC 801-2): Air-discharge ± 8kV , Contact-discharge ± 4kV
2. Fast Transients	EN61000-4-4 (IEC 1000-4-3)
3. Surge Immunity	EN61000-4-5 (IEC 1000-4-5)
4. Conducted Immunity	EN61000-4-6 (IEC 1000-4-6)
5. Radiated Immunity	EN61000-4-3 (IEC 1000-4-3)
6. Power Frequency Magnetic Field	EN61000-4-8
7. Voltage Dips, Short Interruptions and Voltage Variations Immunity Test (400VAC Only).	IEC 61000-4-11
8. Conducted Emissions	EN55011A, FCC part 15J-A
9. Radiated Emissions	EN55011A, FCC part 15J-A

2.5 SAFETY	
1.Applicable Standards:	**UL/cUL 60950-1, EN60950-1 recognized, CB Scheme, CE Mark (208VAC & 400VAC inputs only)** 7.5V ≤ Vout ≤ 400V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are SELV 400V < Vout ≤ 600V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are not SELV 600V < Vout ≤ 1500V: Output is Hazardous; LAN/IEEE/Isolated Analog/USB are SELV
2. Withstand Voltage	**Vout ≤ 300V models:** Input - Ground: 2900VDC for 1min, Input-Hazardous Output: 3500VDC for 1min, Input - SELV: 2900VDC for 1min Hazardous Output - SELV: 2121VDC for 1min, Hazardous Output - Ground: 2121VDC for 1min **300 < Vout ≤ 600V models:** Input-Ground: 2900VDC for 1min, Input-Hazardous Output: 3900VDC for 1min, Input-SELV: 2900VDC for 1min. Hazardous Output - SELV: 2688VDC for 1min, Hazardous Output - Ground: 2688VDC for 1min **600 < Vout ≤ 1500V models:** Input-Ground: 2900VDC for 1min, Input-Hazardous Output: 5040VDC for 1min, Input-SELV: 2900VDC for 1min. Hazardous Output - SELV: 2500VDC for 1min, Hazardous Output - Ground: 2500VDC for 1min
3.Insulation Resistance	> 100Megohms at 500VDC, +25°C

2.6 MECHANICAL CONSTRUCTION	
1. Cooling	Fan-driven, Airflow from front to rear. Fan speed control on 10kW (800V-1500V models) and 15kW (30V-50V, and 800V-1500V models). "Zero Stackable" top and bottom. Vents on side shall not be blocked. Chassis slides or suitable rear support required. EIA rack mounting.
2. Dimensions (W x H x D)	Width: 429mm / 16.9", Height: 3U - 133mm / 5.22", Depth - 564mm / 22.2" (excluding connectors, encoders, handles, etc.)
3. Weight	43kg / 97 lbs (Vout < 600V); 32kg / 70lbs (600V < Vout < 1500V)
4. AC Input connector (with Protective Cover)	3 x M6 x 1" threaded studs (L1, L2, L3 and Chassis GND) and terminal cover.
5.Output Connectors	Up to and including 300V models: bus-bars (one and two-hole). Greater than 300V models: M6 x 0.5" threaded-stud terminals.
6.Control Connectors	Analog Programming: DB25, plastic connector, AMP747461-5, Female on Supply; Male on Mating connector, 747321, 25 pin Sub-D connector.
7. Mounting Method	Standard 19" Rack-Mount, provision for standard chassis slides. Side/Rear Support is required; Do not mount by front panel only.
8. Output Ground Connection	M5 x 1.0" threaded-stud

2.7 WARRANTY	
1. Warranty	5 years

*3 GENESYS™ 30V-50V (15kW) and 800V-1500V (10kW/15kW) mdoels require a Two-Wire Parallel Master-Slave connection. See the Product USer's Manual for details.
*4. 30V-50V (15kW) and 800V-1500V (10kW/15kW) models with 480VAC Input have CE Mark.
All specifications subject to change without notice