



GENESYS[™] Series

Programmable DC Power Supplies 5kW in 1U 0-600V / 0-500A

Built-in LAN, USB RS-232 & RS-485 Interface Isolated Analog Program/Monitor/Control Interface

Scalable Power Systems up to 20kW



TDK-Lambda

TDK-Lambda

The **GENESYS™** family of programmable power supplies sets a new standard for flexible, reliable, AC/DC power systems in OEM, Industrial and Laboratory applications.

Features include:

- Leading DC Programmable power density 5kW In 1U package
- Light weight <7.5 Kg
- Wide Range of popular worldwide AC inputs, 3ø (208VAC, 400VAC & 480VAC)
- Output Voltage up to 600V, Current up to 500A
- Built-in LAN (*LXI* 1.5), USB, RS-232/RS-485 Interface
- Last-Setting Memory
- Auto-Start / Safe-Start: user selectable
- High Resolution 16 bit ADCs & DACs
- · Arbitrary waveform profiles and output sequencing
- · Store up to 100 steps into four internal memory cells
- · High-speed Programming
- Constant Voltage/Constant Current/Constant Power operation modes
- Voltage & Current Slew Rate Control
- Internal Resistance programming
- Local / Remote Sensing software controlled
- · Fan speed profile controlled by ambient temperature and load
- Built-in Isolated Analog Programming and Monitoring
- Auto paralleling Scalable Master-Slave Operation up to four identical units
- Certified LabWindows[™]/CVI, LabVIEW[™], and IVI Drivers
- 19" Rack Mount capability for ATE and OEM applications
- Five Year Warranty

Worldwide Safety Agency Approvals







CE marked for LVD, emc and RoHS compliance



Applications

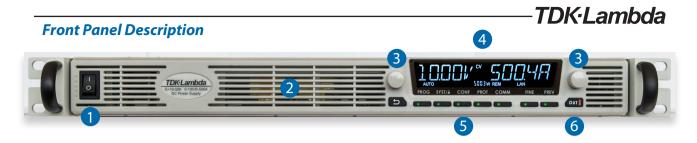
GENESYS[™] power supplies have been designed to meet the demands of a wide variety of applications.

Test & Measurement systems, Component Device Testing, Manufacturing and process control.

Semiconductor Processing & Burn-In, Aerospace & Satellite Testing, Medical Imaging, Green Technology.

Higher power systems can be configured with up to four 5kW units. Each unit is 1U with zero space between them (zero stack).

OEM Designers have a wide variety of Inputs and Outputs from which to select depending on application and location.



- 1. ON/OFF Switch
- 2. Air Intake allows zero stacking for maximum system flexibility and power density.
- 3. Reliable Detent Encoders for settings and Menu navigation.
- 4. High Contrast/Brightness display with wide viewing angle, 16 segment LCD
- 5. Function/Status LEDs: Active modes and function indicators
- 6. Pushbuttons allow flexible user configuration

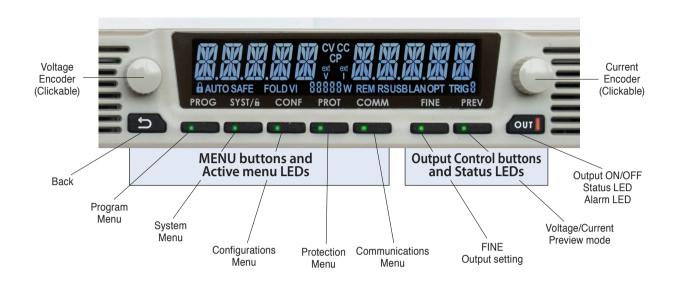
Rear Panel Description

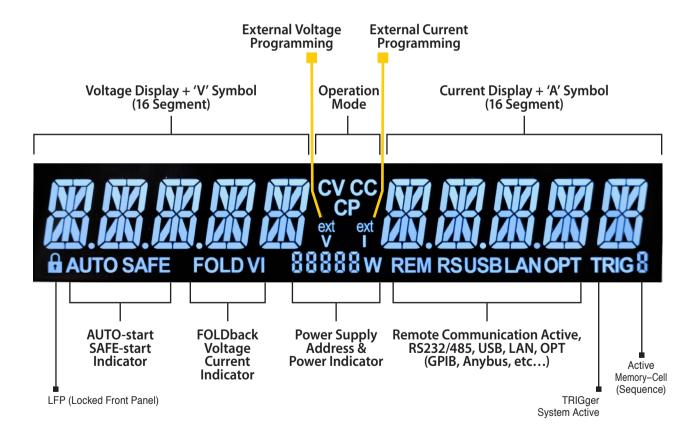


- 1. DB26 (Female) connector for Isolated Analog Programming, Monitoring and other functions.
- 2. USB Interface.
- 3. RS-232/RS-485 IN/OUT Remote Serial Programming.
- 4. LAN (*LXI* 1.5) Interface .
- 5. Auto paralleling Bus connectors.
- 6. Remote/Local Output Voltage Sense Connections (spring cage).
- 7. Output Connections: Rugged busbars (shown) for models up to 150V Output; Plug connector: PHOENIX CONTACT IPC 5/4-STF-7.62 for models with Outputs >150V.
- 8. Input: 208VAC, 400VAC & 480VAC Three Phase, 50/60 Hz. AC Input Connector: PHOENIX CONTACT Power Combicon PC 5/4-STCL1-7.62 Series with strain relief.
- 9. Optional Interface Position for IEEE 488.2 SCPI or AnyBus Interface.
- 10. Exhaust air assures reliable operation when zero stacked.

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Front Panel Display:

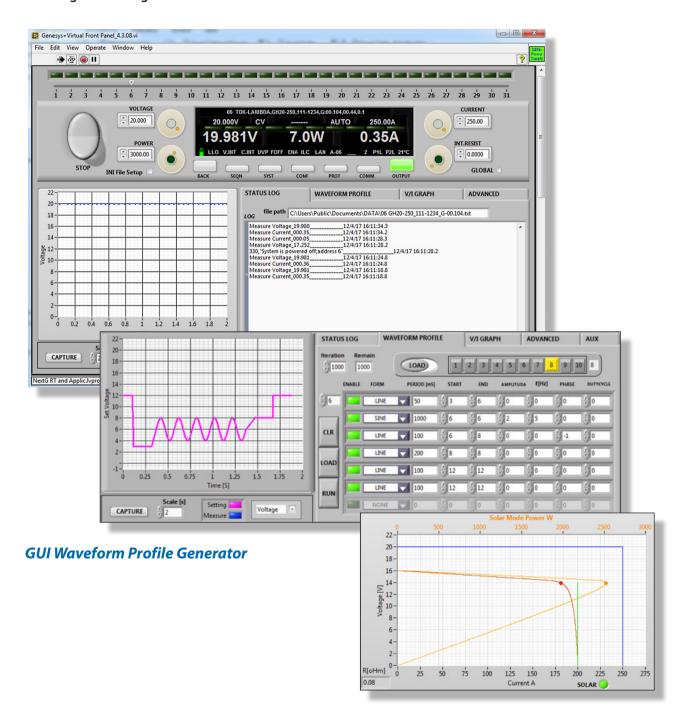




Graphical User Interface

Virtual Panel allows programming and monitoring units with or without front panel.

- 1. Control and monitor up-to 31 units
- 2. Data logging including errors, events and recovery
- 3. Realtime Graph and Waveform creator, store/load sequence.
- 4. Solar array mode calculate MPP (Max Peak Power) for solar array.
- 5. Registers View: Operation Status, Fault, Event Status, ENABLE and INTERLOCK signals.
- 6. Remote communication state LOC, REM, LLO.
- 7. Programmed signals 1&2



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GENESYS™ Blank Front Panel



Blank Front Panel is available for applications where the front panel display and controls are not required and only remote interface (Digital/Analog) is needed.

Blank Front Panel option has all the standard product functions and features except the display.

The power supply can be controlled via the rear panel connectors.

(LAN, USB, RS-232/RS-485, Isolated analog programming and monitoring).

GENESYS™ Parallel and Series Configurations

Parallel operation - Master/Slave:

Auto paralleling Scalable Master-Slave Operation. Active current sharing allows up to four identical units to

Total real current is programmed measured and reported by the Master.

Up to four supplies operate as one.

Standard Unit - Zero stacked up to 4 units



Scalable Power Systems:

be connected

Factory assembly and test available for two and three unit Systems 10kW/15kW.

Parallel Kit available for four unit systems 20kW.



GSP 10kW in 2U



GSP 15kW in 3U

Series operation

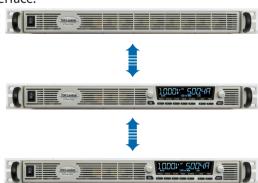
Two units may be connected in series to increase the output voltage or to provide bipolar output. (Max 600V to Chassis Ground).

Remote Programming via communication Interface

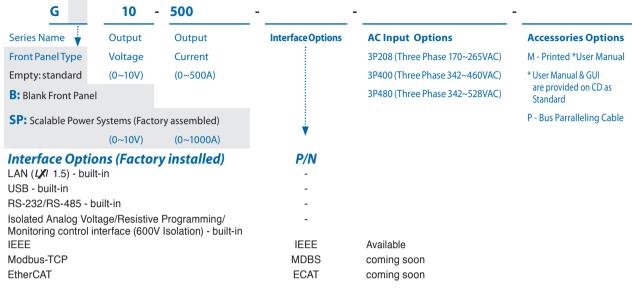
Standard Built-in LAN, USB, RS-232 & RS-485 allows daisy-chain control of up to 31 Power supplies on the same communication bus. Can be Daisy chained via built-in RS-485 Interface.







Power Supply Identification / Accessories How to order



Models 5kW

Model	Output Voltage VDC	Output Current (A)	Output Power (W)	Model	Output Voltage VDC	Output Current (A)	Output Power (W)
G10-500	0~10V	0~500	5000	G40-125	0~40V	0~125	5000
G20-250	0~20V	0~250	5000	G60-85	0~60V	0~85	5100
G30-170	0~30V	0~170	5100	G80-65	0~80V	0~65	5200
G300-17	0~300V	0~17	5100	G100-50	0~100V	0~50	5000
G600-8.5	0~600V	0~8.5	5100	G150-34	0~150V	0~34	5100

Available: March 2018

Accessories

Available

Accessories will be sent separatly from the Power Supply packing, according to order.

1. Serial Communication cable

RS-232/RS-485 cable is used to connect the power supply to the Host PC.

Mode	RS-485	RS-232
PC Connector	DB-9F	DB-9F
Communication Cable	Shielded L=2m	Shielded L=2m
Power Supply Connector	RJ-45	RJ-45
P/N	GEN/485-9	GEN/232-9

2. Serial link cable (Included with the power supply)

Daisy-chain up to 31 **G**ENESYS[™] power supplies.

Mode	Power Supply Connector	Communication Cable	P/N
RS-485	RJ-45	Shielded L=50cm	GEN/RJ45

3. Bus Paralleling cable

Connectors	Cables	P/N
2013595-1 (TYCO)	Shielded L=11cm	G/P

4. User Manual

n Oser Mariaar	
Printed User Manual	G/M

GENESYS[™] 5000W SERIES SPECIFICATIONS

		GEN	10-500	20-250	30-170	40-125	60-85	80-65	100-50	150-34	300-17	600-8.5
1.Rated output voltage(*1)		V	10	20	30	40	60	80	100	150	300	600
2.Rated output current (*2)		A	500 (*3)	250	170	125	85	65	50	34	17	8.5
3.Rated output power		W	5000	5000	5100	5000	5100	5200	5000	5100	5100	5100
INPUT CHARACTERISTICS		V	10	20	30	40	60	80	100	150	300	600
1.Input voltage/freq. 3 phase, 3 wire + Ground (*4)			3-Phase, 200V models: 170~265Vac, 47~63Hz (Covers 200/230Vac) 3-Phase, 400V models: 342~460Vac, 47~63Hz (Covers 380/400/415Vac)									
								ac) 40/460/480Va	c)			
		17.5A @ 200V		-520 vac, +/	JJIIZ (COVEIS J	00/100/113/1	T0/T00/T00Va	C)				
2. Maximum Input curren at 100% load		9.2A @ 380Va										
	3-Phase, 480V models:		9.2A @ 380Va									
3.Power Factor (Typ)				80Vac, rated o								
4.Efficiency (*5)		%	90	91	91	91	91	91	91	91	92	92
5.Inrush current (*6)			Less than 50A	1								
CONSTANT VOLTAGE MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)			0.01% of rate	d output volta	ige							
2.Max. Load regulation (*8)			0.01% of rate	d output volta	ige +5mV							
3.Ripple and noise (p-p, 20MHz)	(*9)	mV	75	75	75	75	75	80	90	120	200	480
4.Ripple r.m.s. 5Hz~1MHz (*9)		mV	8	10	12	12	12	15	15	20	60	100
5.Temperature coefficient		PPM/°C	50PPM/°C fro	m rated outp	ut voltage, fol	lowing 30 min	utes warm-u).				
6.Temperature stability			0.01% of rate	d Vout over 8h	nrs interval fol	lowing 30 mir	utes warm-u	o. Constant lin	e, load & temp	D.		
7. Warm-up drift			Less than 0.0	5% of rated οι	tput voltage-	-2mV over 30 i	minutes follow	ving power or	١.			
8.Remote sense compensation/v	vire (*10)	V	2	2	5	5	5	5	5	5	5	5
9.Up-prog. Response time (*11)		mS	30	30	30	30	50	50	50	50	50	100
10 Down-prog reconce time:	Full load (*11)	mS	50	50	80	80	80	100	100	100	100	200
10.Down-prog.response time:	No load (*12)	mS	300	600	800	900	1000	1200	1500	2000	3000	3000
11.Transient response time		m.c	Time for outp	out voltage to	recover within	n 0.5% of its ra	ted output fo	r a load chang	je 10~90% of r	ated output c	urrent. Outpu	t set-point:
11.11ansient response time		mS							or models abo			
12.Hold-up time												
CONSTANT CURRENT MODE		V	10	20	30	40	60	80	100	150	300	600
1.Max. Line regulation (*7)				d output curre		40	00	00	100	130	300	000
2.Max. Load regulation (*13)				d output curr								
3.Load regulation thermal drift					itput current o		as fallouina l	and change				
-	(*14)		1200	600				_	45	45	15	0
4.Ripple r.m.s. @ 10% rated volta	•	mA			300	150	100	70			7.5	8
5.Ripple r.m.s. @ rated voltage. B	.W 5HZ~IIVIHZ.	mA	700	300	150	75	50	35	23	23	7.5	4
6.Temperature coefficient		PPIVI/*C	70PPM/°C fro						- 110 4			
7.Temperature stability						lowing 30 min	iutes warm-u	o. Constant iin	e, load & temp	perature.	-	
							20:	4-11				
8. Warm-up drift						•		es following p				
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8. Warm-up drift ANALOG PROGRAMMING AND I	MONITORING (ISOLATED		20V~600V: Le			•						
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GENESYS™ 5000W SERIES SPECIFICATIONS

PROTECTIVE FUNCTIONS	V	10	20	30	40	60	80	100	150	300	600
1.Foldback protection			Output shut-down when power supply change mode from CV to CC or Power Limit mode or from CC to CV or Power Limit mode. User presetable. Reset by AC input recycle in autostart mode, by OUTPUT button, by rear panel or by communication. Output shut-down. Reset by AC input recycle in autostart mode, by OUTPUT button, by rear panel or by communication.								
2.Over-voltage protection (OVP)		Output shut-	down. Reset l	y AC input re	cycle in autost	art mode, by	OUTPUT butte	on, by rear pa	nel or by com	munication.	
3.Over -voltage programming range	V	0.5~12	1~24	2~36	2~44	5~66	5~88	5~110	5~165	5~330	5~660
4. Over-voltage programming accuracy		+/-1% of rate	d output volta	age							
5.Output under voltage limit (UVL)		Prevents fron	n adjusting Vo	out below limi	t. Does not aff	ect in analog	programming	. Preset by fro	ont panel or co	ommunication	port.
6.Over temperature protection					y autostart mo	de.					
7. Output under voltage limit (UVL)		Prevents adju	stment of Vo	ut below limit	<u>. </u>						
8. Output under voltage protection (UVP)					. P.S output tu or by commur		g under voltag	e condition. F	Reset by AC in	put recycle in	autostart
FRONT PANEL											
1.Control functions		Mutiple options with 2 Encoders									
		Vout/Iout/Po	wer Limit ma	nual adjust							
		OVP/UVL/UV	manual adju	ıst							
					ldback, OCP, EI						
					LAN,IEEE,RS2		3				
		Communication Functions - Selection of Baud Rate, Address									
					ltage/resistive						
					Voltage/Curre		5V/10V, Outp	ut ON/OFF, Fr	ront Panel Loc	k.	
2.Display					utput voltage						
					tput current +						
3. Front Panel Buttons Indications		OUTPUT ON, ALARM, PREVIEW, FINE, COMMUNICATION, PROTECTION, CONFIGURATION, SYSTEM, SEQUENCER.									
4. Front Panel Display Indications					rnal Voltage, E imunication, T			P, Autostart,	Safetstart, Fol	dback V/I, Ren	note
ENVIRONMENTAL CONDITIONS											
1.Operating temperature		0~50°C, 100%	load.								
2.Storage temperature		-20~85°C									
3.Operating humidity	%	20~90% RH (i	no condensat	ion)							
4.Storage humidity	%	10~95% RH (r									
5.Altitude (*17)					ent derating 2	1/ /100m or To	dorating 1°C/	100m about 2	1000m Non on	arating, 1000	nf+ (12000m)
		Operating: 10	00011 (300011	ı), output curr	ent derating 2	70/ 100111 01 12	derating i C/	IOUIII above 2	2000III. NOII OL	perating: 4000	JIT (12000111).
MECHANICAL											
1.Cooling		Forced air co	oling by inter	nal fans. Air flo	ow direction: f	rom Front pa	nel to power s	upply rear			
2.Weight	Kg	Less than 7.51	(g.								
3.Dimensions (WxHxD)	mm	W: 423, H: 43	.6, D: 441.5 (Refer to Outli	ne drawing).						
4.Vibration		MIL-810G, me	thod 514.6, P	rocedure I, te	st condition Ar	nex C - 2.1.3	1				
5.Shock		Less than 200	i, half sine, 11	mSec.							
SAFETY/EMC											
1. Applicable standards: Safety		UL60950-1. C	SA22,2 No.60	950-1, IEC609	50-1, EN60950	-1.					
тирринальный силон,							ontions) are 9	FLV			
	-	Vout ≤50V: Output, J1,J2,J3,J4,J5,J6,J7,J8 (sense),J9 (communication options) are SELV 60≤ Vout≤ 600V: Output, J8 (sense) is hazardous, J1,J2,J3,J4,J5,J6,J7,J9 (communication options) are SELV									
FILE					azaruous, J1,J2	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	7,J9 (COITIIIIUIII	cation option	is) are selv		
EMC		IEC/EN61204-									
2.Withstand voltage					4242VDC 1mii nput - Ground			in, SELV-Grou	ınd: 707VDC 1	min, Output -	SELV: 707VD0
					t: 3656VDC 1m C 1min, Input -			min, SELV-Gro	ound: 707VDC	1min, Output	- SELV:
3.Insulation resistance		More than 10	0Mohm at 25	°C, 70%RH.							
4.Conducted emmision					Annex H table	H.1 . FCC Part	15-A. VCCI-A				
5.Radiated emission					Annex H table			VCCI-A			
6. EMC compliance					-	1.5 anu 114, 1	cciaitis-A,	VCCI-A			
o. EIVIC COMPHANCE		According to	IEC/EIND1204	-3 Industrial e	iiviionment						

- *1: Minimum voltage is guaranteed to maximum 0.1% of rated output voltage.
- *2: Minimum current is guaranteed to maximum 0.2% of rated output current.
- *3: Derate 5A/1°C above 40°C.
- *4: For cases where conformance to various safety standards (UL, IEC, etc...) is required, to be described as 190-240Vac (50/60Hz) for 3-Phase *5: 3-Phase 200V models: At 200Vac input voltage, 3-Phase 400/480V: At 380Vac input voltage. With rated output power.
- *6: Not including EMI filter inrush current, less than 0.2mSec.
- *7: 3-Phase 200V models: 170~265Vac, 3-Phase 400V models: 342~460Vac, 3-Phase 480V models: 342~528Vac. Constant load.

 *8: From No-Load to Full-Load, constant input voltage. Measured at the sensing point in Remote Sense.

 *9: For 10V~150V models: Measured with JEITA RC-9131A (1:1) probe. For 300~600V model: Measured with 100:1 probe.

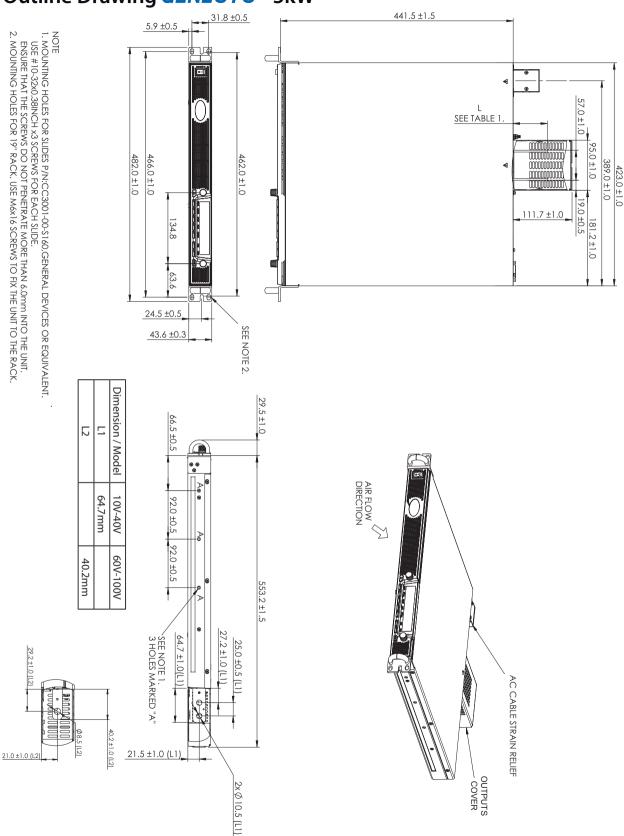
- *10: The maximum voltage on the power supply terminals must not exceed the rated voltage.
 *11: From 10% to 90% or 90% to 10% of Rated Output Voltage, with rated, resistive load.

- *11: From 10% to 10% of Rated Output Voltage, with rated, resistive load.
 *12: From 90% to 10% of Rated Output Voltage.
 *13: For load voltage change, equal to the unit voltage rating, constant input voltage.
 *14: For 10V model the ripple is measured at 2V and rated output current. For other models, the ripple is measured at 10% of rated output voltage. B.W 5Hz~1MHz.
 *15: The Constant Current programming, readback and monitoring accuracy do not include the warm-up and Load regulation thermal drift.
 *15: Measured at the constant current programming.

- *16: Measured at the sensing point. *17: For 10V model Ta derating 2°C/100m.

TDK-Lambda

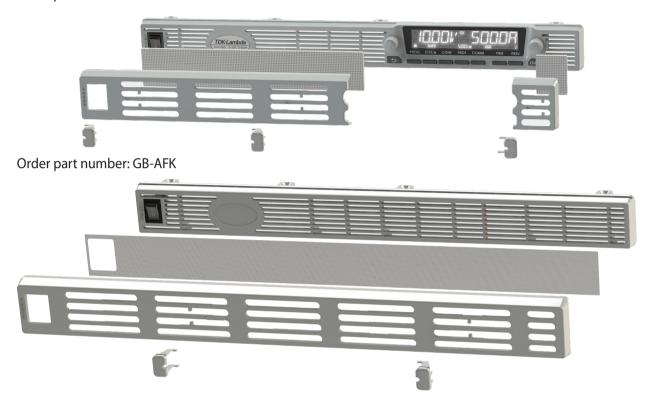
Outline Drawing **GENESYS™** 5kW



Front Panel dust filter

Front panel dust cover is available for dusty air environment applications Dust cover is removable snap-in filter (for easy maintenance)

Order part number: G-AFK



Accessories

1. Front Panel dust filter / Field installation kit:

Air Filter

- 1. Material: Reticulated polyurethane Foam
- 2. Thickness 4.0 mm
- 3. 30 PPI
- 4. Storage temp. : -40° \sim 85°C
- 5. Operating temp. : $0^{\circ} \sim 60^{\circ}$ C
- 6. Humidity 95% RH

Thermal derating: For all models derate 10°C up to 2000 meter.

Above 2000 m derate 2°C / 100 meter or 2% of current rated / 100m

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GLOBAL NETWORK