e-SolarMark C150 & C350 laser printers - Specifications

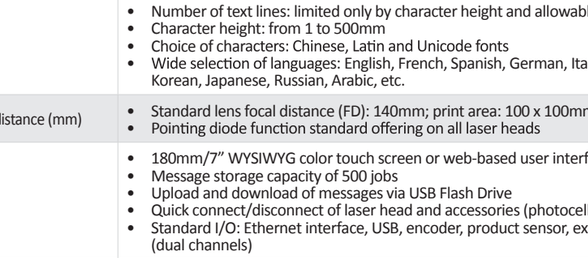
Model name	e-SolarMark C150 / C150S/ C350 / C350 L / C350 S – 10-watt or 30-watt sealed CO_2 laser printers
Production line speed (max.)	250 m/min.*
Marking speed (max.)	2,100 characters/second 150,000* products/hour
Print features	• Number of text lines: limited only by character height and allowable print area • Character height: from 1 to 500mm • Choice of characters: Chinese, Latin and Unicode fonts • Wide selection of languages: English, French, Spanish, German, Italian, Portuguese, Brazilian, Chinese, Korean, Japanese, Russian, Arabic, etc.
Coding area & focal distance (mm)	• Standard lens focal distance (FD): 140mm; print area: 100 x 100mm • Pointing diode function standard offering on all laser heads
Operations	• 180mm/7" WYSIWYG color touch screen or web-based user interface, full **CoLOS®** software and solutions support • Message storage capacity of 500 jobs • Upload and download of messages via USB Flash Drive • Quick connect/disconnect of laser head and accessories (photocell, encoder, alarm) • Standard I/O: Ethernet interface, USB, encoder, product sensor, extractor controls, status beacon, remote interlocks (dual channels)
Other characteristics	• 3 separate modules: controller, laser head and optional user interface • Controller weight: 10.2 kg - User interface weight: 2.1 kg - Head weight: 18.5 kg • Dust/humidity protection: IP55 or IP65 laser head, IP54 controller and IP54 user interface • Controller: stainless steel - Head: stainless steel and protected coated materials - User interface: protected coated materials • Operating temperature range: 5 to 45° C - Humidity: 5 to 90% non-condensing • Interconnecting cable length: controller to laser head - 6 m standard; optional: 3m, 9m and 9m (heavy duty) • Electrical power supply: 100-240 V 50/60 Hz auto select - Power consumption: C350 7 A; 700 VA; C150 3 A; 300 VA
Options	• Optional lens focal distance and print area (mm): FD80: 55x55; FD100: 70 x 70; FD175: 120 x 120; FD220: 155 x 155; FD290: 205 x 205 • Remote user interface • IP65 laser head (no plant air using FS400 cooler.) Optional IP65 Adapter kit available for plant air solution • Optional IP65 Controller kit • Optional 90° printhead cable adaptor • Optional interconnecting cable length. 3m, 9m and 9m Heavy Duty • Industrial interface option board: RS-232/422 connectivity, 20 configurable operator I/O (12 inputs / 8 outputs), 2 voltage free relays, USB (optional scanners)
Accessories	• Dust and gas extractor, stand (controller, laser head and user interface), guarding tunnel, photocell, encoder, alarm beacon
PC software	• Web user interface provided as standard • Full **CoLOS®** software and solutions support includes matrix layout design, promotional coding, OPC UA, PackML V3.0

* Depends on the size and the complexity of the message as well as the nature of the surface marked

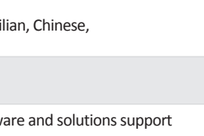
IP55 Laser head

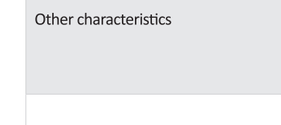
IP65 Laser head

Controller



User interface





CE and CDRH compliant

LIA
LASER INSTITUTE OF AMERICA

Solaris Laser
LIA member since 1996

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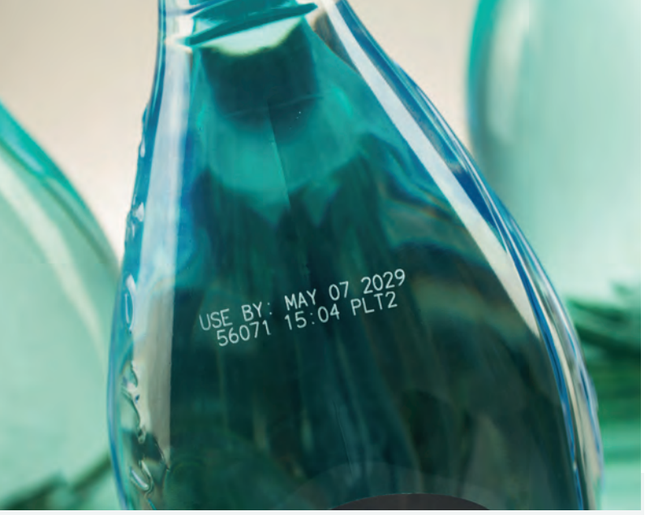
30-watt CO_2 laser printer

e-SolarMark C350

Power up your packaging line



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Power up your packaging line

e-SolarMark C350 laser printer offers best-in-class laser performance as standard across the range, with solutions for many applications:

Food, confectionery, dairy, beverage, cosmetics, pharmaceutical and industrial.

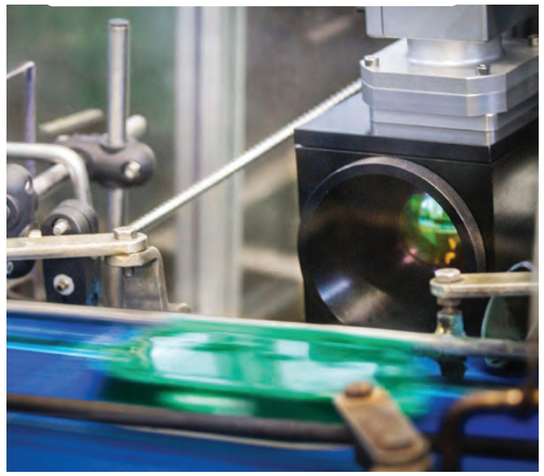
Our e-SolarMark range of lasers are supported by our deep familiarity with diverse applications and our ongoing innovation ensures our solutions remain best-in-class. Fast, precise, and reliable, e-SolarMark laser printers provide the complete and customizable solution for coding and marking on medium to high-speed production lines with the efficiency, versatility, and performance you expect from Solaris Laser.

Your benefits

- High-quality, permanent, compliant coding–faster.
- Less downtime, increased efficiency–our lasers are proven reliable and virtually maintenance-free which improves your OEE and minimizes lines stoppages.
- Improve OPEX and sustainability goals with no consumables.
- User-friendly flexible solution to meet your specific application needs.

High-quality, permanent codes

- **Intelligent innovation.**
  Intelli'Arc®, our scribing technology, ensures high-quality codes printed faster than other 30-watt laser printers. Our **Intelli'Cool®** system senses and adjusts cooling to maintain peak laser performance even in the harshest production environments.
- **30% faster* with Intelli'Arc®.**
  Print smooth and crisp high-quality codes 30% faster than most competitor's lasers and e-SolarMark lasers coders achieve speeds up to 2,100* characters/second and 150,000* products/hour with less stress on the laser source.
- **100% compliant, permanent, traceable.**
  Laser codes are permanent and resistant to rubbing, scratching and humidity which ensures traceability and compliance you can count on. High-quality, permanent codes support anti-counterfeiting through the entire product life cycle from the production line to the consumer.



Lower TCO, sustainable solution

- **No consumables.**
  Since there are no consumables with laser printers there is an immediate and significant impact on your operating expenses (OpEx). e-SolarMark laser printing technology uses less energy, long-life extraction filters and requires no plant air. This all adds up to extended maintenance intervals and lower operating costs.
- **Increase efficiency, reduce maintenance.**
  Since lasers are virtually maintenance-free; you will benefit from fewer line stoppages improving your production line's Overall Equipment Effectiveness (OEE), and will minimize loss due to downtime.
- **Clean, green and sustainable.**
  Laser printers support your sustainability goals by eliminating inks and related chemicals for a truly eco-friendly coding solution.

Proven reliability, flexible and user-friendly design

- **30% longer life* and 60,000 hours mean time between failure (MTBF).**
  Available in both IP55 and IP65 ingress protection levels, the e-SolarMark C350 laser printer is designed for reliable operation even in dusty and humid environments. And with **Intelli'Cool®** technology you can expect optimal performance even with high speed and high throughput operation in a wide ambient temperature range (5°C to 45°C), without any adverse impact to laser source lifespan.
- **Customized modularity.**
  Choose among 26 lenses to cover print areas from 55 x 55mm to 500 x 500mm,
  3 wavelength options: 9.3, 10.2 or 10.6µm, and 3 scanhead choices: standard, HD and HD+ and other accessories to fit virtually any possible application.
- **Easy but powerful operation and connectivity.**
  Complex messages and automatic updates can be set up from the intuitive WYSIWYG 180mm (7 in.) touch screen user interface, web interface or the **CoLOS®** software suite, enabling plant-wide multiple printer management and automatic code update driven by your MES.

*Variable based on specific application requirements and substrates