
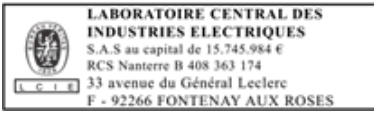




LCIE

CARBON FOOTPRINT ATTESTATION

LCIE n°	15462493 / 779661
CLIENT	LONGi
CFP REPORT	<p>"Product Carbon Footprint Assessment Monocrystalline Modules Production" Version 21/07/2022 published by PINK STRATEGY</p> <p>Product category rules: The PCR considered is the PCR-ed3-FR-2015 04 02 from PEP ecopassport® Program; not product specific rule is available for this type of product.</p>
VERIFICATION REQUIREMENTS	<p>The critical review has been done in compliance with ISO 14067:2018 and ISO 14071:2014. <i>Any change to the audited documents renders the attestation invalid. A new verification by Bureau Veritas is necessary.</i></p>

CONFORMITY	<p>The following requirement is not respected: “the following elements shall be documented separately in the CFP study report: - Fossil and biogenic GHG emissions” (paragraph n°6.4.9.8 from ISO 14067:2018).</p> <p><i>Notice: The total CFP results given by PINK STRATEGY are correct and include fossil and biogenic GHG emissions. However, the CFP report does not allow to distinguish fossil and biogenic GHG emissions. This requirement does not affect the total CFP results.</i></p> <p>The others requirements defined by ISO 14067:2018 are respected.</p>
VERIFIER	Damien PRUNEL, LCIE Bureau Veritas
LOCATION, DATE	At Moirans July 25, 2022
	 

Results in (kgCO ₂ / kWp)		Results in (kgCO ₂ / kWp)		Results in (kgCO ₂ / kWp)		Results in (kgCO ₂ / kWp)		Results in (kgCO ₂ / kWp)	
M6 120 half-cell monofacial		M6 120 half-cell bifacial bi-glass		M6 144 half-cell monofacial		M6 144 half-cell bifacial bi-glass		M10 108 half-cell monofacial	
Power (W)	kg CO ₂ /kWp	Power (W)	kg CO ₂ /kWp	Power (W)	kg CO ₂ /kWp	Power (W)	kg CO ₂ /kWp	Power (W)	kg CO ₂ /kWp
360	734.29	360	744.69	435	723.23	430	742.13	405	715.79
365	724.23	365	734.49	440	715.01	435	733.6	410	707.06
370	714.44	370	724.56	445	706.98	440	725.27	415	698.55
375	704.92	375	714.9	450	699.12	445	717.12	420	690.23
380	695.64	380	705.49	455	691.44	450	709.15	425	682.11
385	686.61	385	696.33	460	683.93	455	701.36	430	674.18

Results in (kgCO ₂ / kWp)		Results in (kgCO ₂ / kWp)		Results in (kgCO ₂ / kWp)		Results in (kgCO ₂ / kWp)		Results in (kgCO ₂ / kWp)	
M10 132 half-cell monofacial		M10 144 half-cell monofacial		M10 144 half-cell monofacial G2		M10 144 half-cell bifacial bi-glass		M10 144 half-cell bifacial bi-glass G2	
Power (W)	kg CO ₂ /kWp	Power (W)	kg CO ₂ /kWp	Power (W)	kg CO ₂ /kWp	Power (W)	kg CO ₂ /kWp	Power (W)	kg CO ₂ /kWp
495	717.01	530	728.43	540	717.98	525	746.34	535	733.47
500	709.84	535	721.62	545	711.4	530	739.3	540	726.68
505	702.81	540	714.94	550	704.93	535	732.39	545	720.01
510	695.92	545	708.38	555	698.58	540	725.61	550	713.46
515	689.17	550	701.94	560	692.34	545	718.95	555	707.04
520	682.54	555	695.62	565	686.21	550	712.41	560	700.72

CFP results

(Calculations based on data collected from 2020-2021, verified by LCIE Bureau Veritas on July, 2022)



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