

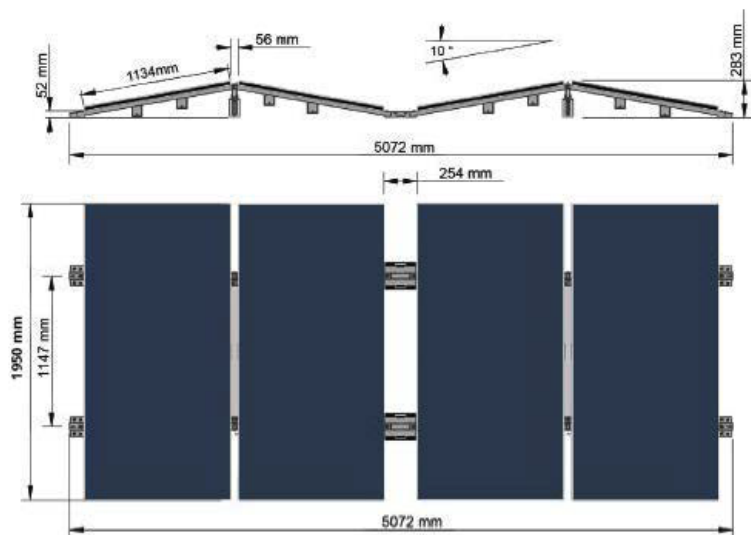
DATABLAD SMARTSOLARBOX



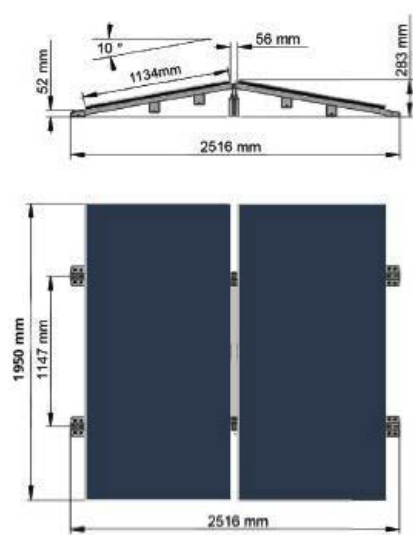
**DMEGC DM-505
M10RTB60HSW
505W**

VERSJON 5.0

SSB4:



SSB2:



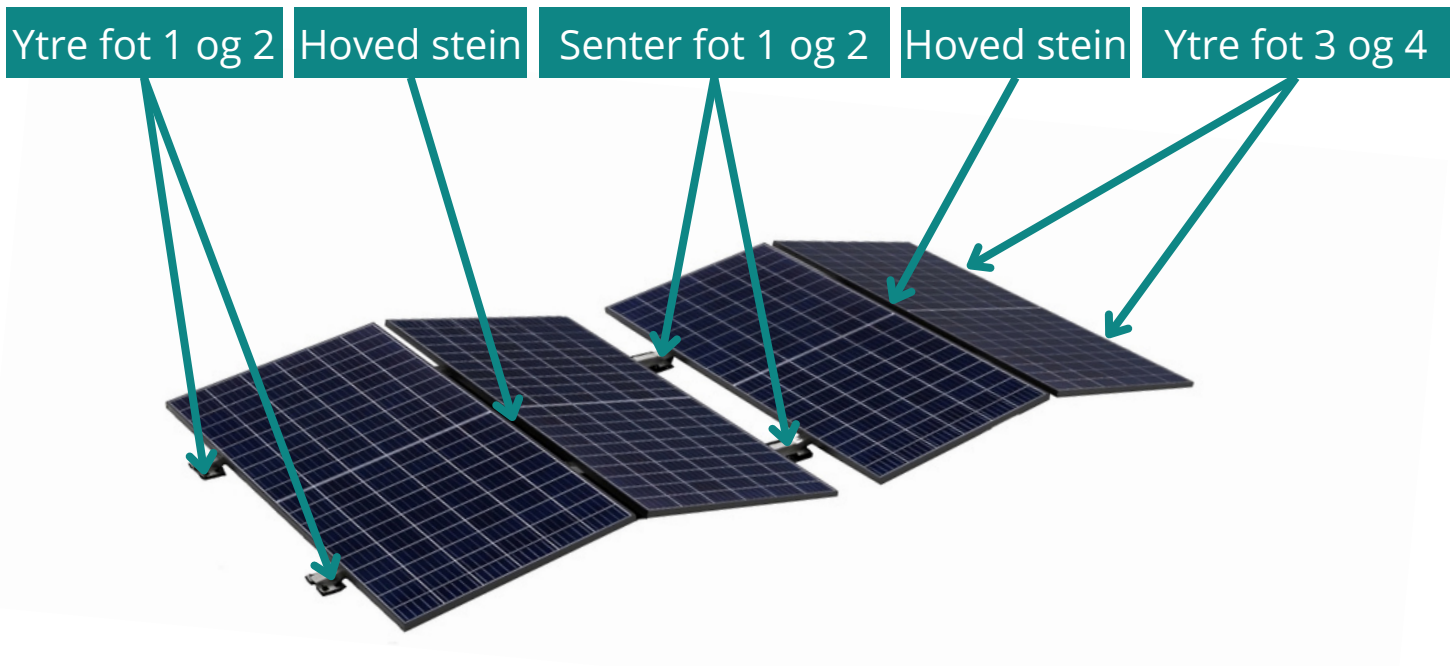
Teknisk Data

Anvendelsesområde	Flate tak med en helning på $\leq 5^\circ$ med folie eller asfalttak, på betong, grus eller grønne tak; også egnet for tak med trapesformet blikk.
Ballast	Innebygde betongballastelementer - ingen gjennomtrengning av taket
Vinkel	10°
Retning	Øst-Vest
Materiale konstruksjon	Magnelis® ZM310
Berøring på takmembranen	RegupolSolarAlu 10mm (PUR-bond gummi granulat)
DC-Kabel	Integrert MC4-Evo2 plugg, 4mm ² - 10 års garanti
Optimizer/Microinverter	Valgfri Optimaizer eller microinverter kan integreres i SmartSolarBox-systemet under produksjonen.
Godkjenninger:	Vind test IFI. LoadtestsREECH



Vektfordeling SmartSolarBox

Light DMEGC 505W



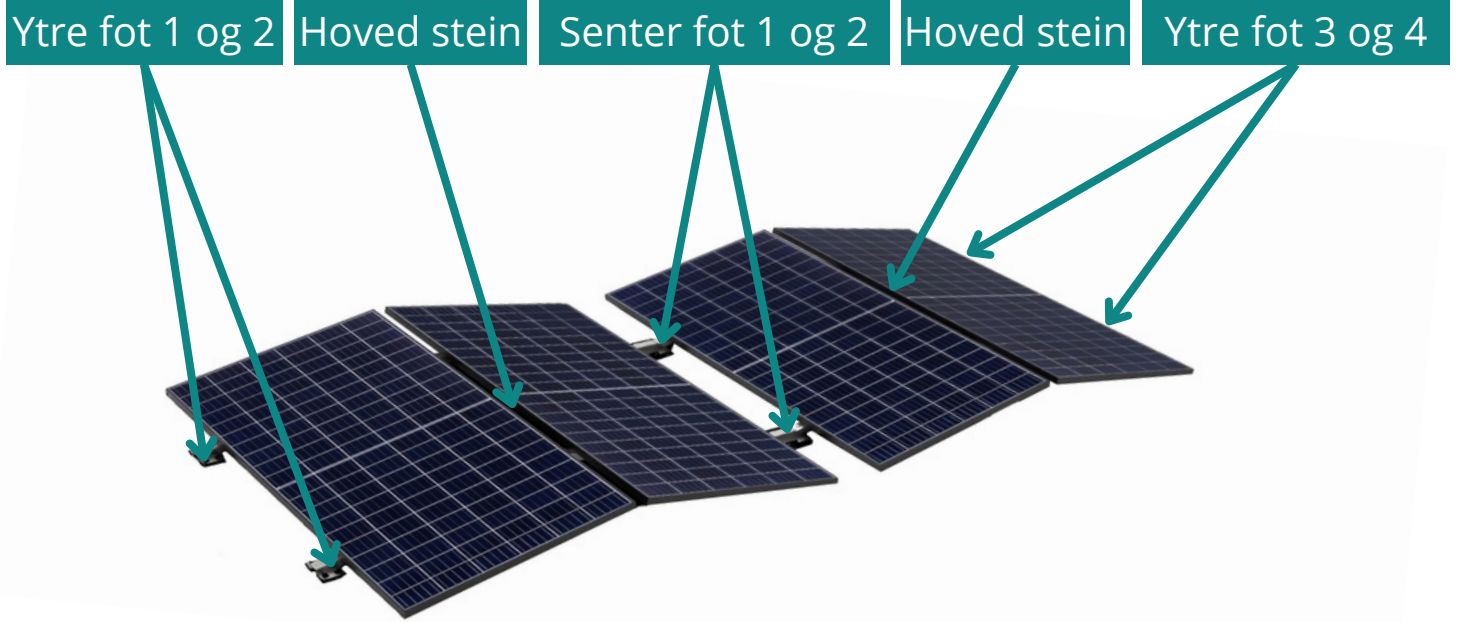
	Kontaktflate	Vektfordeling	Trykk	Trykk m2
	[cm2]	[%]	[N]	[N/m2] == [PA]
Ytre fot venstre	94	4,28 %	71,9	7652
Ytre fot høyre	94	4,28 %	71,9	7652
Hoved stein	470	33,25 %	559,5	11904
Senter fot 1	284	8,20 %	138,0	4858
Senter fot 2	284	8,20 %	138,0	4858
Hoved stein	470	33,25 %	559,5	11904
Ytre fot 3	94	4,28 %	71,9	7652
Ytre fot 4	94	4,28 %	71,9	7652
Total	1884	100,00 %	1682,6	

Modul bredde	1134	mm
Modul lengde	1950	mm
Modul vekt	26,8	kg
System lengde SSB4 V 5.0	5072	mm
Dekningsområde for SSB4 V5.0	9,89	m2
Modul areal	2,21	m2
Fot areal per modul	0,05	m2

Type SSB	Vekt	Fordelt last
SSB4 Corner	316kg	31,96kg/m2
SSB4 Heavy	244kg	24,64kg/m2
SSB4 Light	170kg	17,21kg/m2

Vektfordeling SmartSolarBox

Heavy DMEGC 505W



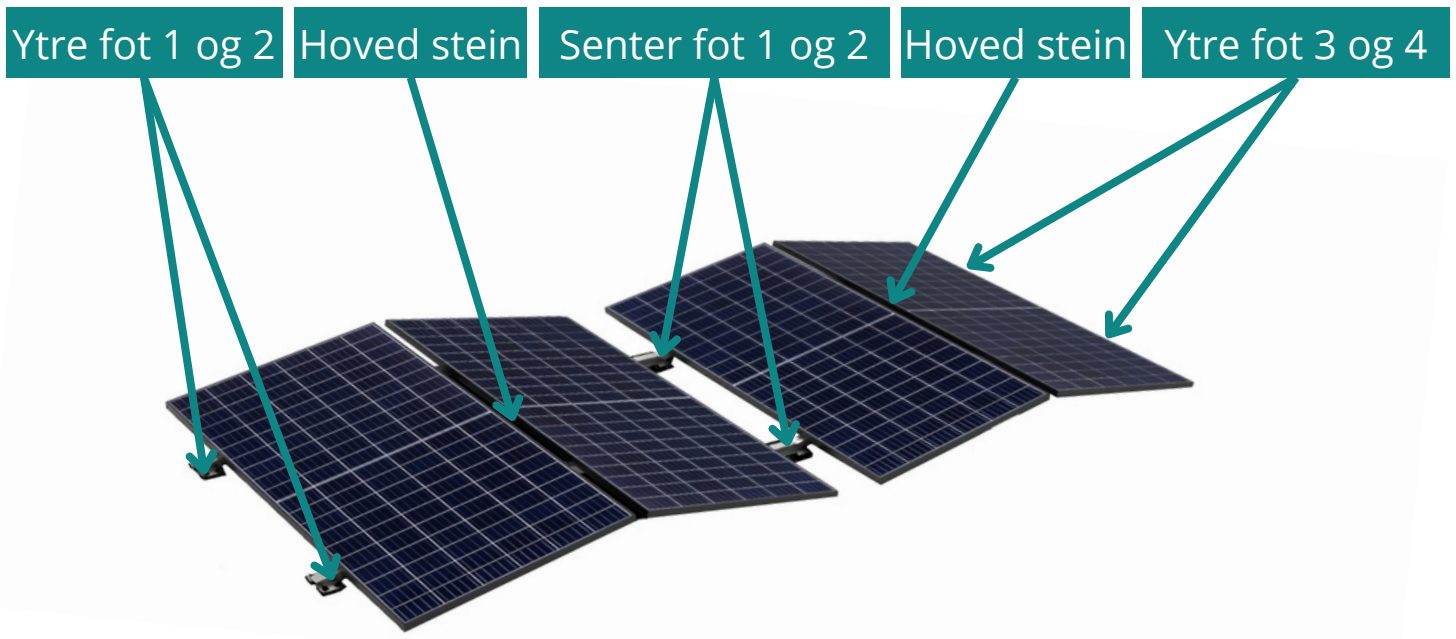
	Kontaktflate	Vektfordeling	Trykk	Trykk m2
	[cm2]	[%]	[N]	[N/m2] == [PA]
Ytre fot venstre	94	4,33 %	104,2	11081
Ytre fot høyre	94	4,33 %	104,2	11081
Hoved stein	470	34,10 %	821,2	17473
Senter fot 1	284	7,25 %	174,6	6148
Senter fot 2	284	7,25 %	174,6	6148
Hoved stein	470	34,10 %	821,2	17473
Ytre fot 3	94	4,33 %	104,2	11081
Ytre fot 4	94	4,33 %	104,2	11081
Total	1884	100,00 %	2408,3	

Modul bredde	1134	mm
Modul lengde	1950	mm
Modul vekt	26,8	kg
System lengde SSB4 V 5.0	5072	mm
Dekningsområde for SSB4 V5.0	9,89	m2
Modul areal	2,21	m2
Fot areal per modul	0,05	m2

Type SSB	Vekt	Fordelt last
SSB4 Corner	316kg	31,96kg/m2
SSB4 Heavy	244kg	24,64kg/m2
SSB4 Light	170kg	17,21kg/m2

Vektfordeling SmartSolarBox

Corner DMEGC 505W



	Kontaktflate	Vektfordeling	Trykk	Trykk m2
	[cm2]	[%]	[N]	[N/m2] == [PA]
Ytre fot venstre	94	5,20 %	162,5	17283
Ytre fot høyre	94	5,20 %	162,5	17283
Hoved stein	470	30,75 %	960,7	20440
Senter fot 1	284	8,85 %	276,5	9736
Senter fot 2	284	8,85 %	276,5	9736
Hoved stein	470	30,75 %	960,7	20440
Ytre fot 3	94	5,20 %	162,5	17283
Ytre fot 4	94	5,20 %	162,5	17283
Total	1884	100,00 %	3124,2	

Modul bredde	1134	mm
Modul lengde	1950	mm
Modul vekt	26,8	kg
System lengde SSB4 V 5.0	5072	mm
Dekningsområde for SSB4 V5.0	9,89	m2
Modul areal	2,21	m2
Fot areal per modul	0,05	m2

Type SSB	Vekt	Fordelt last
SSB4 Corner	316kg	31,96kg/m2
SSB4 Heavy	244kg	24,64kg/m2
SSB4 Light	170kg	17,21kg/m2

iNFINITY RT

N-type

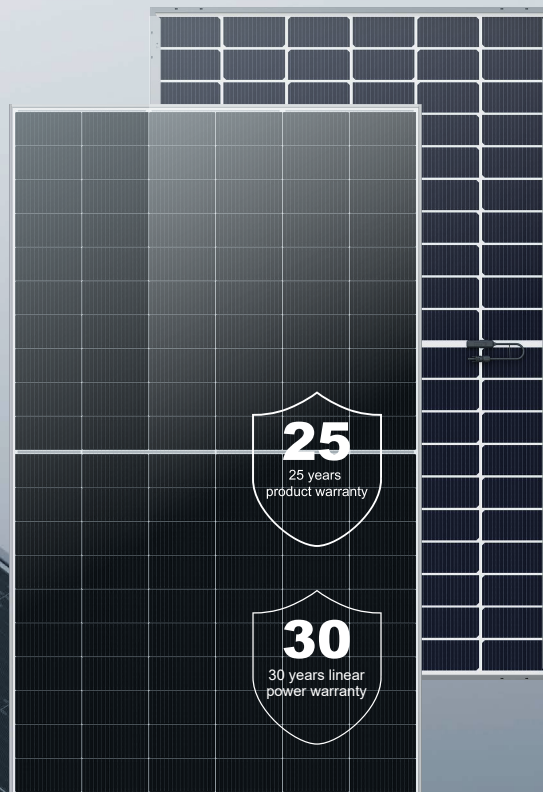
Bifacial Module with Double Glass

DMxxxM10RT-B60HSW

495~515W

23.3%
Max. Efficiency

- **Leading manufacturing**
40+ years experience in high-tech manufacturing.
- **High environmental, social and governance responsibility (ESG)**
100% green production, transparent supply chain and excellent ESG rating in the solar industry.



Outstanding Aesthetics

Designed with aesthetics in mind and manufactured using DMEGC Advanced Black Technology.



Extended Stress Tests

Protection against harsh environmental conditions
Certified by TÜV Rheinland.



Green Product

Focus on circular economy - low carbon footprint, PFAS-free and recyclable components.

COMPANY MANAGEMENT SYSTEM

SA 8000: ILO Standards. Social responsibility standards
ISO 9001: Quality management system
ISO 14001: Environmental management system
ISO 45001: Occupational health and safety management system
ISO 50001: Energy management system
ISO 27001: Information security management system

PRODUCT CERTIFICATION

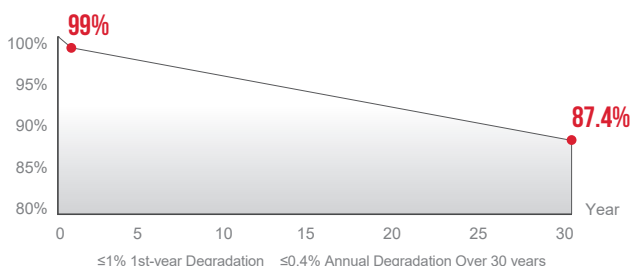
IEC 61215, IEC 61730
Extended-Stress (IEC TS 63209)
Ammonia Corrosion (IEC 62716)
Salt Mist Corrosion (IEC 61701)
LeTID (IEC TS 63342)
Dust & Sand (IEC 60068)



Warranty partner



POWER WARRANTY

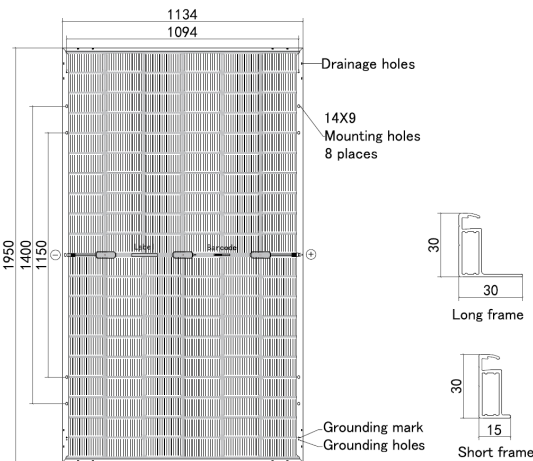


DMxxxM10RT-B60HSW



Module Specification

Cell Type	N type Mono-crystalline , 120 (6×20)
Dimensions (mm)	1950×1134×30
Weight (kg)	26.8
Front Cover	2 mm heat strengthened glass
Rear Cover	2 mm heat strengthened glass
Junction Box	3 Diodes , IP68 according to IEC 62790
Cables	4mm ² /Portrait: 350mm (+)/250mm(-) Landscape: 1300mm(+)/1300mm(-) Length can be customized
Connector Type	PV-ZH202B or MC4 (1000V) PV-ZH202B or MC4-EVO 2A (1500V)



Electrical Specifications¹

Module Type	DM495M10RT-B60HSW-U ⁴ DM495M10RT-B60HSW		DM500M10RT-B60HSW-U DM500M10RT-B60HSW		DM505M10RT-B60HSW-U DM505M10RT-B60HSW		DM510M10RT-B60HSW-U DM510M10RT-B60HSW		DM515M10RT-B60HSW-U DM515M10RT-B60HSW	
	STC ²	NMOT ³	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Testing Condition	STC ²	NMOT ³	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (P _{max} /W)	495	373	500	376	505	380	510	384	515	388
Maximum Power Current (I _{mp} /A)	13.23	10.64	13.30	10.69	13.36	10.74	13.42	10.79	13.48	10.84
Maximum Power Voltage (V _{mp} /V)	37.46	35.03	37.66	35.22	37.86	35.40	38.06	35.59	38.26	35.78
Short-circuit Current (I _{sc} /A)	14.15	11.46	14.22	11.52	14.28	11.57	14.34	11.62	14.40	11.66
Open-circuit Voltage (V _{oc} /V)	44.50	41.90	44.70	42.09	44.90	42.28	45.10	42.47	45.30	42.65
Module Efficiency STC (%)	22.4		22.6		22.8		23.1		23.3	

¹ Measurements according to IEC 60904-3, Measurement tolerance: I_{sc}: ±4%, V_{oc}: ±3%, Test uncertainty for P_{max}: ±3%, Bifaciality: 80% ±5%

² STC (Standard Test Condition): Radiation 1000 W/m², Module temperature 25 °C, AM = 1.5

³ NMOT: Radiation 800 W/m², Ambient temperature 20 °C, AM = 1.5, Wind Speed 1 m/s

⁴ "U" represents the double glass module type applied to a maximum system voltage of 1000V DC



Electrical Specifications¹ (BNPI²)

Nameplate Power (W)	495	500	505	510	515
Maximum Power (P _{max} /W)	547	553	558	564	568
Maximum Power Current (I _{mp} /A)	14.60	14.68	14.74	14.81	14.86
Maximum Power Voltage (V _{mp} /V)	37.50	37.71	37.91	38.11	38.26
Short-circuit Current (I _{sc} /A)	15.57	15.64	15.71	15.78	15.84
Open-circuit Voltage (V _{oc} /V)	44.51	44.71	44.91	45.11	45.31

¹ Measurements according to IEC 60904-3, Measurement tolerance: I_{sc}: ±4%, V_{oc}: ±3%, Test uncertainty for P_{max}: ±3%

² BNPI: Front radiation 1000 W/m², Rear radiation 135 W/m², Module temperature 25 °C, AM = 1.5



Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42±2 °C
Temperature Coefficient of P _{max} (%/°C)	-0.29
Temperature Coefficient of V _{oc} (%/°C)	-0.25
Temperature Coefficient of I _{sc} (%/°C)	+0.048



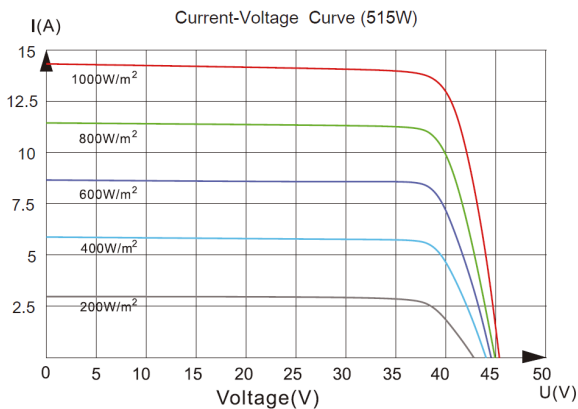
Packaging

Container	40HQ
Pallet Dimensions (mm)	2000×1140×1250
Pieces per Pallet	36
Pieces per Container	864



Operating Conditions

Operating Temperature (°C)	-40 to +85
Maximum System Voltage (V)	1000/1500 DC (IEC)
Overcurrent Protection Rating (A)	30
Power Output Tolerance (%)	0~3
Protection Class	Class II
Max. Test Load, Push/Pull (Pa)	Front 5400 / Back 2400
Max. Design Load, Push/Pull (Pa)	Front 3600 / Back 1600



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Statement: The installation instructions and the warranty conditions must be followed. Due to technological progress, product parameters will be adjusted accordingly. When signing the contract, the latest data of the company shall prevail. All information in this data sheet corresponds to EN 50380. Changes and errors excepted. Document: EN DS-M10RT-B60HSW-20240814.

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