

Smart Optimiser and Gateway Data sheets

Optimiser Technical Parameters

Model	Archai iOPT 800W
Max Input Power	800 W
Max Voltage	70 V
MPPT Voltage Range	12–60 V
Max Continuous Input Current	21 A
Max Input Short-Circuit Current	23 A
Max Continuous Output Current	21 A
Max Output Power	780 W
Output Voltage (w/o Gateway)	0–60 V
Output During Shutdown	0 W
Max System Voltage	1500 V
Voltage Accuracy	1 ±0.1 V
Peak MPPT Efficiency	≥ 99.7 %
Communication	PLC
Communication Parameters	PV Voltage, Output Voltage, Output Current, Output Power, Temperature, State
Protection	Input overvoltage, Output overcurrent, Output overload, High temperature
Night Self-Consumption	≤ 0.5 W
Dimensions (W × D × H)	116 × 31.5 × 123 mm
Weight	0.865 kg
Input/Output Cable Length	IN+ 200 mm / IN- 1100 mm / OUT+ 750 mm / OUT- 750 mm
Cable Size	4 mm ² (12 AWG)
Terminals	Staubli MC4 connectors
Protection Rating	IP68
Relative Humidity	0–100 % RH
Operating Temperature	–40 °C to +65 °C
Cooling	Natural convection
Installation	Wall-mounted / screw locking
Certification	Rheinland, CA
Packaging	28 pcs/CTN, 840 pcs/pallet OR 5 pcs/CTN, 40 pcs/pallet

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Data Gateway (GT) Technical Parameters

Parameter	Value
Model	Archai GT
Matches With	Archai iOPT 800W
Max System Voltage	1500 V
AC Input Voltage Range	90–264 V
AC Input Frequency	50/60 Hz
Max AC Input Power	5 W
Max AC Input Current	0.1 A @ 90 V AC
Number of Input Strings	30
Max Modules per String	21 A
Terminals	Staubli MC4 connectors
Communication (Optimizer)	PLC
Communication (Upper Machine)	2.4 GHz Wi-Fi / RS485
Initial State	OFF when AC not connected; ON when AC connected
Switch-On	Press once until “Running” light is on (<5 s)
Shutdown	Press once until “RSD” indicator is on OR AC power off, all lights off (<30 s)
EMC Standards	IEC61000-6-1 / -6-2 / -6-3
Safety	IEC62109-1
RoHS	Compliant
Dimensions (W × D × H)	140 × 33.5 × 175 mm
Weight	0.88 kg
AC Input Cable Length	1 m
Protection Level	IP67
Operating Temperature	–40 °C to +70 °C
Cooling	Natural convection
Installation	Wall-mounted / screw locking
Certification	Rheinland, CA