

8.1 DS3 Series Microinverter Datasheet

Model	DS3-S	DS3-L	DS3
Input Data (DC)			
Recommended PV Module Power (STC) Range	250Wp-480Wp+	265Wp-570Wp+	300Wp-660Wp+
Peak Power Tracking Voltage	22V-48V	25V-55V	32V-55V
Operation Voltage Range	16V-60V	16V-60V	26V-60V
Maximum Input Voltage	60V		
Maximum Input Current	16A x 2	18A x 2	20A x 2
Output Data (AC)			
Maximum Continuous Output Power	640VA	768VA	880VA
Nominal Output Voltage/Range*	240V/211V-264V		
Nominal Output Current	2.7A	3.2A	3.7A
Nominal Output Frequency/Range*	60Hz/59.3Hz-60.5Hz		
Power Factor(Default/Adjustable)	0.99/0.7 leading...0.7 lagging		
Maximum Units per 20A and 30A Branch**	6/8	5/7	4/6
AC Bus Cable	12AWG / 10AWG		
Efficiency			
Peak Efficiency	97%		
CEC Efficiency	96.5%		
Nominal MPPT Efficiency	99.5%		
Night Power Consumption	20mW		
Mechanical Data			
Operating Ambient Temperature Range	-40 °F to +149 °F (-40 °C to +65 °C)		
Storage Temperature Range	-40 °F to +185 °F (-40 °C to +85 °C)		
Dimensions (W x H x D)	10.3" × 8.6" × 1.6" (262mm X 218mm X 41.2mm)		
Weight	5.7lbs(2.6kg)		
DC Connector Type	MC4		
Cooling	Natural Convection - No Fans		
Enclosure Environmental Rating	NEMA 6		
Overvoltage Category	OVC II For PV Input Circuit, OVC III For Mains Circuit		
Utility Interconnection Voltage And Frequency Trip Limits And Trip Times	See NOTE 1 Below		
Trip Limit And Trip Voltage	+/-2V		
Frequency Time Accuracy	+/-0.1Hz		
Alternate Trip times	See NOTE 1 Below		
Features			
Communication (Inverter To ECU)	Encrypted ZigBee		
Isolation Design	High Frequency Transformers, Galvanically Isolated		
Energy Management	Energy Management Analysis (EMA) system		
Over/Under Voltage Protection	Yes		
Over/Under Frequency Protection	Yes		

*Nominal voltage/frequency range can be extended beyond nominal if required by the utility.

** Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

*** To be eligible for the warranty, APsystems microinverters need to be monitored via the EMA portal. Please refer to our warranty T&Cs available on usa.APsystems.com/canada.APsystems.com

Specifications subject to change without notice - please ensure you are using the most recent update found at usa.APsystems.com/canada.APsystems.com
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