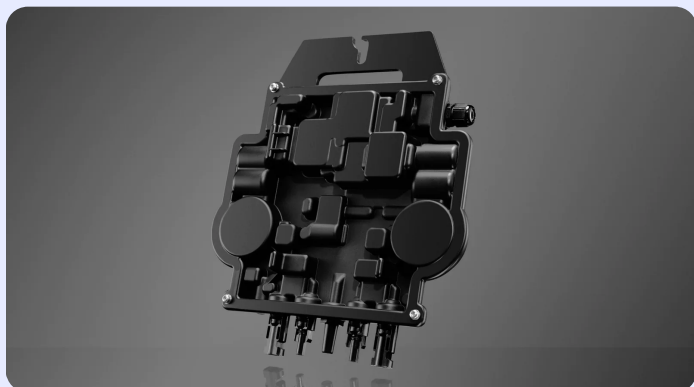




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AP Systems DS3 - S



Model	DS3-S
Input Data (DC)	
Recommended PV Module Power (STC) Range	250Wp-450Wp+
Peak Power Tracking Voltage	25V-55V
Operating Voltage Range	16V-60V
Maximum Input Voltage	60V
Maximum Input Current	18A x 2
Output Data (AC)	
Maximum Continuous Output Power	600VA
Nominal Output Voltage/Range*	230V/184V-253V
Nominal Output Current	2.6A
Nominal Output Frequency/ Range*	50Hz/48Hz-51Hz
Power Factor(Default/Adjustable)	0.99/0.8 leading...0.8 lagging
Maximum Units per 20A Branch**	1
Efficiency	
Peak Efficiency	97%
CEC Efficiency	96.5%
Nominal MPPT Efficiency	99.5%
Night Power Consumption	20mW

Mechanical Data

Operating Ambient Temperature Range	- 40 °C to + 65 °C
Storage Temperature Range	- 40 °C to + 85 °C
Dimensions (W x H x D)	262mm x 218mm x 41.2mm
Weight	2.6kg
AC Bus Cable	2.5mm ²
DC Connector Type	MC4
Cooling	Natural Convection - No Fans
Enclosure Environmental Rating	IP67

Features

Communication (Inverter To ECU)	Encrypted ZigBee
Isolation Design	High Frequency Transformers, Galvanically Isolated
Energy Management	Energy Management Analysis (EMA) system
Warranty***	10 Years Standard ; 20 Years Optional

Compliances

Safety, EMC & Grid Compliances	EN 62109-1; EN 62109-2; EN 61000-6-1; EN 61000-6-3; VDE-AR-N 4105
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WDS Lite 640 Solar Set

Including 8 solar panels



Performance data

Power rating (P_m)	80W
Rated voltage (V_{mp})	18.15V
Rated current (I_{mp})	4,4A
Open circuit voltage (V_{oc})	21.45V
Short-circuit current (I_{sc})	4.67A
Nominal power tolerance	+3%

Electrical values at standard test conditions (STC): 1000W/m²; 25°C; AM 1.5

Structure

Cell count	99
Cell size (mm)	158.75 x 24.6
Cell efficiency (η)	21.33%
Cell material	Monocrystalline Si

Technical data

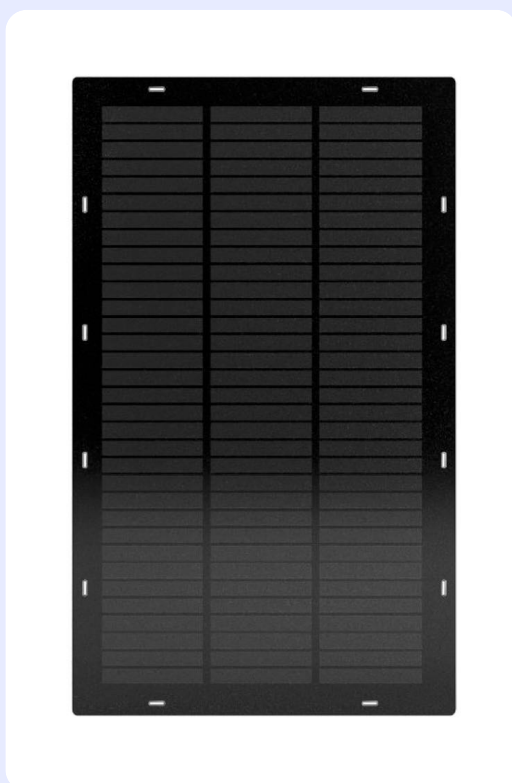
Cell material	Monocrystalline Si
Construction	Shingle
Useful area	97%
Bypass diodes	1
Frontmaterial	ETFE

Mechanical data

Operating temperature range	-20°C to +65°C
Size (mm)	900 x 540 x 2
Weight	1.29kg
Protection class	II
Protection type	IP67

Properties

CE	certified
IEC 61000	certified
IEC 61215	certified
Manufacturer warranty	15 years
Performance warranty >90%	15 years
Performance warranty >80%	25 years



Connection cable type C5/7/10

Performance data

Maximum voltage	450V
Maximum power	10A
UV-stability	minimum 20 years
Length (C5/C7/C10)	5m/7.5m/10m

Set-up

Cable type	H07RN-F3G1
Protection type CEE 7/7 plug (Schuko)	IP44
Protection type (remaining cable/plug)	IP67

Mounting strap type H200/400

Performance data

Material (strap)	Dyneema
Material (Ring)	Stainless steel
Maximum weight capacity	30kg
Cycles (Open & Close)	50
UV-stability	minimum 20 years
Length (H200/H400)	20cm/30cm/40cm





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