



Eaton EP-501987

Photovoltaic DC string box, 1x IN + 1x OUT,
SPD Type2, MC4 connection, IKA-1/8,
outdoor protected

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PRODUCT NAME	Eaton xComfort IKA SOLAR photovoltaic DC stringbox
CATALOG NUMBER	EP-501987
PRODUCT LENGTH/DEPTH	118 mm
PRODUCT HEIGHT	268 mm
PRODUCT WIDTH	238 mm
PRODUCT WEIGHT	4.605 kg
CERTIFICATIONS	IEC 61439-2 Annex DD



Powering Business Worldwide

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NUMBER OF INPUTS	1
INPUT VOLTAGE DC - MAX	1000 V
STRING PROTECTION	None
MATERIAL	Plastic
IMPACT STRENGTH	IK10
FUSE TYPE	Other
FOR FUSE SIZE	Other
COMMUNICATIONS PROTOCOL	Other
COMMUNICATION BUS	Other
MONITORING FUNCTION	No
OPERATING TEMPERATURE - MIN	-25 °C
OPERATING TEMPERATURE - MAX	40 °C
INPUT CURRENT PER STRING - MAX	19.5 A
OUTPUT CURRENT - MAX	19.5 A
COLOR	Gray
NUMBER OF CONDUIT INLETS	2
TYPE OF INLET	Other
NUMBER OF STRING INPUTS	1
DEGREE OF PROTECTION	IP65
FITTED WITH:	Grounding connection
DC STRING CIRCUIT-BREAKER	0 A
RATED OPERATIONAL VOLTAGE (UE)	1000 V
RATED CURRENT INC OF A CIRCUIT	19.5 A
RATED DIVERSITY FACTOR (RDF)	1
VOLTAGE PROTECTION LEVEL	3.8 kV
DISCHARGE CURRENT IN (8/20 MS)	20 kA
DISCHARGE CURRENT ITOTAL (8/20 MS) - MAX.	40 kA
NUMBER OF ROWS	1
NUMBER OF MODULE SPACE UNITS PER ROW	8
AMBIENT AIR TEMPERATURE - MIN.	-25 °C

AMBIENT AIR TEMPERATURE - MAX.	40 °C
AMBIENT AIR TEMPERATURE (DAILY AVERAGE) - MAX.	35 °C
HEIGHT OF ENCLOSURE	231 mm
WIDTH OF ENCLOSURE	238 mm
LENGTH/DEPTH OF ENCLOSURE	115 mm
SWITCHGEAR ASSEMBLY	PVA
PV STRING ON INVERTER INPUT	1 x IN + 1 x OUT
DC SURGE ARRESTER	Type 2
DC GENERATOR SWITCH	None
PROTECTION CLASS	II (totally insulated)
RATED CURRENT I_{NA} OF THE SWITCHGEAR ASSEMBLY	1 x 19.5 A
CONNECTION TYPE	MC4
CONDUCTOR CROSS SECTION	PE: 16 - 25 mm ² min./max.: 6 mm ²
DELIVERY CONDITION	Ready to connect
MOUNTING METHOD	Surface mounting
ENCLOSURE MATERIAL	Polycarbonate (plastic)
COVER/DOOR COLOR	Transparent
LOCATION TYPE	Outdoor installation – without solar radiation
RELATIVE HUMIDITY (INDOOR INSTALLATION) - MAX	70% (+30°C) 57% (+40°C) 95% (-5°C - +30°C)
RELATIVE HUMIDITY (OUTDOOR INSTALLATION) - MAX	60% (+35°C) 46% (+40°C) 100% (-25°C - +27°C)
NUMBER OF SUPPORTED MPP TRACKERS	1
NUMBER OF INPUTS PER MPP TRACKER	1
NUMBER OF OUTPUTS PER MPP TRACKER	1

