emiternet	EM-831N DCAC
	STANDARD SERIES
	DESIGN: MODULAR
	DEGREE OF PROTECTION: IP65
	YEARS OF WARRANTY: 5
	UV RESISTANCE: YES
	READY TO CONNECT: YES
• • •	WEIGHT: 2.24 KG
emiternet	$5^{1} \qquad \textcircled{P}^{65} \qquad \textcircled{400V}{AC} \qquad \fbox{CC}$

The connection panel from the Polish manufacturer EMITER is intended for supplying power to photovoltaic inverters., Protections against short circuits and overloads., It also ensures protection against the effects and direct on the alternating and direct current sides. The distribution board should be used in grounded and isolated photovoltaic installations. Due to the high degree of IP protection, outdoor installation is possible. The design of the switchgear is intended for surface mounting. Depending on the equipment, switchboards can perform various functions.

BASIC PARAMETERS DC SIDE

Number of inputs | PV string outputs Quantity | Type of DC surge arrester | Type

Connection type

BASIC PARAMETERS AC SIDE

AC Surge Protector | Type

Overcurrent circuit breaker

ELECTRICAL AND MECHANICAL PARAMETERS OF THE HOUSING

Model	PHS 8 T	
Number of fields	8	
Dimensions of housing without chokes and MC4 (Length Width Height)	120.00 201.00 205.00	
Design in accordance with	EN 60670-1, EN 62208	
Level of security	IP65	
Protection class	II	

Noark | T1/T2

Array MC4 Stäubli

Noark B16A 1F

1|1

1 | Noark | T1/T2



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Rated insulation voltage U _i	400 V AC, 1500 V DC
The incandescent rod test	650°C
Impact resistance	IK08
UV resistance	YES
Recyclable plastic	bezhalogenowy
Working temperature	-25ºC - +60ºC

DC surge arrester used (SPD)		
Manufacturer / Model	Noark Ex9UEP1+2 6.25(R) 3P 1000	
Made in accordance with	EN 61643-31	
Surge protection	PV T1+T2 (Klasa I+II, B+C, Typ 1+2)	
Making the insert	MOV (Warystor)	
Protection function	thermal	
Protection mode	+ → PE	
-	– → PE	
-	+ ↔ -	
Maximum continuous operating voltage U_{CPV}		
$+ \rightarrow PE, - \rightarrow PE$	1000 V	
+ ↔ -	1000 V	
Frequency	DC	
Nominal discharge current I_n (8/20 μ s)	20 kA	
Maximum discharge current I _{max} (8/20 μs)	40 kA	
Surge current I _{imp} (10/350 µs)		
$+ \rightarrow PE, - \rightarrow PE$	6.25 kA	
+ ↔ -	6.25 kA	
Voltage protection level U_p by I_n		
$+ \rightarrow PE, - \rightarrow PE$	3.8 kV	
+⇔-	3.8 kV	
Leakage current I _{PE} by U _{REF} DC	< 50 μΑ	
Leakage current I _{PE} by U _{REF} AC	< 1 mA	
Maximum short-circuit current I _{SCPV}	1000 As	
Number of ports	1	
LV system type	DC, nieuziemiony system PV	
Auxiliary contact (optional)	1 przemienny (CO)	
Auxiliary contact, voltage / current		

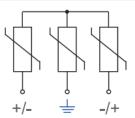


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AC $\rm U_{max}$ / $\rm I_{max}$

DC U_{max} / I_{max}

Connection configuration



Overcurrent circuit breaker used (MCB) (1)

Manufacturer / Model	Noark / Ex9BN 1P B16
Rated current	16A; 1-F
Rated operational voltage U _e	230/415 V AC
-	72 V DC to the pole (1P, 2P)
-	48 V DC to the pole (3P, 4P)
Minimum voltage	12 V AC/DC
Rated impulse withstand voltage U_{imp} in accordance with IEC 60898-1	6 kV
Rated impulse withstand voltage U _{imp} in accordance with IEC 60947-2	6 kV
Rated short-circuit breaking capacity ${\rm I_{cn}}$ in accordance with IEC 60898-1	6 kA
Rated short-circuit breaking capacity ${\rm I}_{\rm cn}$ in accordance with IEC 60947-2	10 kA
Rated voltage of the insulation U _i	690 V AC
Number of poles	1
Frequency	50/60 Hz
Characteristic	В
Design in accordance with	IEC/EN 60898-1, IEC/EN 60947-2
Mechanical durability	20 000 connections
Electrical durability	10 000 connections
Energy limitation class	3
Category of use	А
Feed direction	Any (top or bottom)

Y

250 V AC / 1 A

250 V DC / 0.1 A; 75 V DC / 0.5 A

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Overvoltage limiter used AC (SPD)

Manufacturer / Model	Noark Ex9UE1+	2 12.5 1PN 275	
Connection	L-N/PE		
Made in accordance with	EN 616	643-11	
Type of delimiter	Typee 1+2 (klasa	I+II, B+C, T1+T2)	
Making the insert	MOV (Warystor)	MOV (Warystor)GDT (Iskiernik)	
Rated voltage Un	230	230 V AC	
Reference test voltage U _{REF}	255	V AC	
Continuous working voltage U_c	275 V AC	255 V AC	
Frequency f	25 kA to the pole	50 kA to the pole	
Specific energy W/R	156.25 kJ/Ω		
Maximum impulse current I _{imp} (10/350 μs)	12.5 kA to the pole	50 kA to the pole	
Maximum discharge current I _{max} (8/20 μs)	50 kA to the pole		
Voltage protection level U_p for electricity I_n	1.5 kV	1.5 kV	
Voltage protection level U_p for electricity I_max	1.8 kV	1.5 kV	
Voltage protection level U_p dla 5 kA (8/20 μ s)	1 kV	-	
N-PE Follow current extinguishing capability $I_{\rm fi}$	-	100 A	
5 s	335 V	335 V	
200 ms	335 V	1200 V	
Residual current I _{PE} by U _{REF}	≤ 1 mA	-	
Limiter voltage for current 1mA	387 -	387 - 473 V	
Response time	≤ 25 ns	≤ 100 ns	
Maximum fuse protection	160 A gG	-	
Ability to withstand short-circuit current	50kA	-	
Short-circuit withstand I _{SCCR}	10kA	-	
Current factor k	1kA	-	
Type of system LV	TN-S, TT (1+1)		

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