



PRODUCT DESCRIPTION

The Metrobit DC Combiner Box is an Aluminum made enclosure connecting 4 string of solar panels to one MPPT port of Solar or hybrid inverters. The mounting kit makes it easy to install the cabinet on solar mount structure and arrange solar cabling easy

The Metrobit DC Combiner Box provides 2 level of protection to the solar panel strings.

Each string is connected to a double pole MCB for protection and disconnection for services

To protect the system from lightening spikes, each string is protected by suitable SPD.

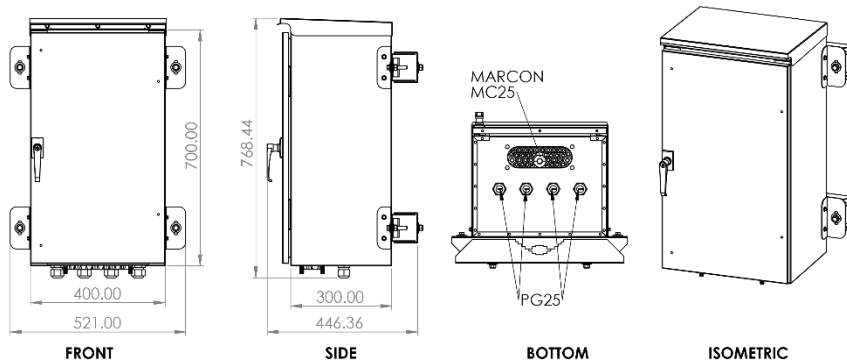
Lockable door handle creates safety and ease of opening the door for services

KEY FEATURES

- 2 level protection
- SPD Type: IEC
- SPD Certifications: IEC, UL
- MCB: 4 pole 250 V
- Aluminium made, Electrostatic Powder coated
- Galvanized Mounting kit
- Ingress Protection: IP55
- Colour: RAL7035

Applications

- GSM BTS Sites
- Telecommunication sites
- C&I Microgrid
- Residential solar
- Campus Hybrid solar
- Industrial Telecommunication site
- Commercial communication sites
- And more



Surge Protection Specification

Electrical Characteristics		
SPD type	IEC	2
Nominal PV voltage	Uocsc	1000 Vdc
Max. PV operating voltage	Ucpv	1060 Vdc
Residual Current <i>Leakage current to Ground</i>	Ipe	None
PV Permanent Operating current <i>Current consumption at Ucpv</i>	Icpv	< 1 mA
Follow current	If	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	In	20 kA
Max. discharge current <i>max. withstand @ 8/20 μs by pole</i>	Imax	40 kA
Current withstand short circuit PV	Iscpv	1000 A
Protection mode(s)		Common/Differential mode
Residual voltage at 5 kA <i>@ 5 kA (8/20μs)</i>	Up-5kA	3 kV
Protection level +/-PE (-/PE) <i>@ In (8/20μs)</i>	Up	3.6 kV
Mechanical Characteristics		
Connection to Network		By screw terminals: 4-25mm ² / by bus
Mounting		Symmetrical rail 35 mm (EN 60715)
Housing material		Thermoplastic UL94 V-0
Operating temperature	Tu	-40/+85°C
Protection rating		IP20
Disconnection indicator		1 mechanical indicator by pole - Red/Green
Remote signaling of disconnection		Option DS50PVS-1000 - output on changeover contact
Dimensions		See diagram
Weight		0.268 kg
Disconnectors		
Thermal disconnector		Internal
Standards		
Standards compliance		IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5
Certification		UL
Part number		
480302		

MCB Specification

	
Product models	NDB2Z-63 (PV)
Rated operational voltage (V)	DC750V(3P)/DC1000V(4P)
Rated operating current (A)	1 ~ 63A
Number of poles	3P、4P
Product certification	CCC

All specifications are subject to change without prior notice