

## POWER SURGE PROTECTOR

### Description

MARSA Power DC surge protectors are designed to protect DC supply system. The range of products can divert up to 40kA surge current per phase (P-N), (P-E), (N-E) generated in electrical power line to the earth. Protection is effective in diverting the lightning surge, internally generated and over-charging transient conditions.

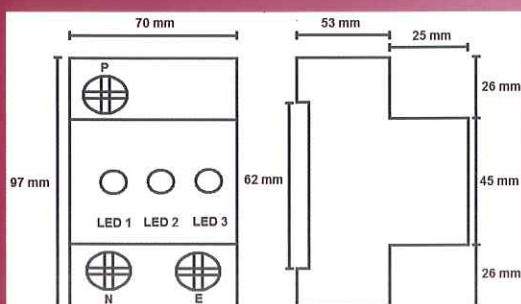
### Power DC Surge Protector

#### PDCP1

- Withstand surge current 40kA per phase (P-N), (P-E), (N-E).
- Designed for DC power line. Suitable to protect inverter in solar system, DC switch Board, protect battery and etc.
- Suitable for electrical, electronic and mechanical equipment (control system).

#### Important

- \* This product is warranted only for manufacturing defects. The warranty period is two years and began on the date of purchased.
- \* The warranty does not apply for any misused, altered, neglected or damaged by accident or abnormal conditions of operation or handling.
- \* Make sure disconnect the SPD while doing the equipment testing (System/Load).
- \* Warranty support is available if product is purchased through MARSA distributors sales marketing



### Features and Benefits

- Full mode protection with 4 MOV's. All mode protection covers Positive-Negative (P-N), Positive-Earth (P-E) and Neutral-Earth (N-E).
- Monoblock protection..
- Ensure reliability of surge protector to the facilities and equipment.
- Transient over current protector.
- Double MOV's in line P-N.
- With light indicator.



### STANDARD OF COMPLIANCES

MS IEC 61643-1  
MS IEC 61643-12

Approved By  
JKR Electrical Material Approved List  
(EMAL)

### STANDARD OF REFERENCES

IEEE C62.41  
BS 6651



**SPECIFICATION****Power DC Protector**

SPECIFICATION	PDCP1 MODEL
Description/Type	Parallel surge protector
Protection mode	Full Mode (P-N, P-E, N-E)
Backup Overcurrent protector / Overheat	Thermal fuse for every MOV
Frequency range	40 Hz - 60Hz
Earth Leakage current	<200 $\mu$ A
Temperature range	-40° C to +85° C
Humidity	0-90%
Connection type	Screw terminal
Max. Conductor Size	16mm <sup>2</sup>
Display	LED Indicator status
	MS IEC 61643-1
STANDARD OF COMPLIANCES	MS IEC 61643-12
	IEEE C62.41
STANDARD OF REFERENCES	BS 6651

SPECIFICATION	PDCP1 40200	PDCP1 40350	PDCP1 40580	PDCP1 40850
Current surge rating per phase- ( $I_n$ ) (P-N), (P-E), (N-E).	40kA	40kA	40kA	40kA
Total current protection rating, $I_{max}$	50kA	50kA	50kA	50kA
Working voltage ( $V_{dc}$ )	150-200V	275-350V	440-580V	800-850V
Let Through Voltage, ( $U_p$ ) 20kV 1.2/50 $\mu$ s open circuit voltage 10kA 8/20 $\mu$ s short circuit current,	<1.4kV	<1.6kV	<1.8kV	<1.9kV
Let Through Voltage, ( $U_p$ ) 10kV 1.2/50 $\mu$ s open circuit voltage 5kA 8/20 $\mu$ s short circuit current,	1 kV	1.3kV	1.5kV	1.7kV
Let Through Voltage, ( $U_p$ ) 6kV 1.2/50 $\mu$ s open circuit voltage 3kA 8/20 $\mu$ s short circuit current,	<440V	<720V	<980V	<1.5 kV
Weight per unit	500g	500g	500g	500g

