



## Surge Protector MODEL : GWS Series Power Line Lightning Protector



### FEATURES :

- High reliability with MOV
- Employed import lighting protection device
- Step divide current of redundant structure
- High rated discharge capacity,
- Withstand up to 8/20ns 80KA lightning surge current
- Complete protection: Protection complete earth connection
- Response time  $\leq 25$  ns
- It is simply parallel ground connection installation
- Indicates operation status, and can understand clear at a glance
- Communication signal terminal
- Proceed remote signal monitor and warning alarm
- Can repeat normally work after frequent lightning
- Maintenance – free: Satisfy the demand of remote unmanned operated station.
- Operation life up to 20 years.
- 100% digital technology

# SPECIFICATIONS :

Type	GWS1 series		GWS2 series		GWS3 series	
	GWS1-S	GWS1-T	GWS2-S	GWS2-T	GWS3-S	GWS3-T
Application	User's main-supply 1 <sup>st</sup> stage protection		User's Sub-supply 2 <sup>nd</sup> stage protection		Room equipment supply 3 <sup>rd</sup> stage protection	
Operate Voltage rated(VAC)	1Φ 220	3Φ 380	1Φ 220	3Φ 380	1Φ 220	3Φ 380
Operate Voltage Max (VAC)	1Φ 280	3Φ 480	1Φ 280	3Φ 480	1Φ 280	3Φ 480
Surge current rated(8/20ns20times)	50 KA and 40 KA		20 KA		15 KA	
Surge current Max(8/20us times)	100 KA and 80 KA		40 KA		25 KA	
Response time	25 ns		25 ns		25 ns	
Surge voltage Residual voltage (1KV/us)	≤0.40KV		≤0.42KV		≤0.50KV	
Surge current residual voltage (8/20us)	3 KA: ≤ 0.55 KV 5KA: ≤ 0.68 KV 10KV: ≤ 0.88 KV 20KA: ≤ 1.00 KV 30KA: ≤ 1.20 KV 40KA: ≤ 1.40 KV 50KA: ≤ 1.60 KV* (*for model 100KA only)		1KA: ≤ 0.52 KV 3KA: ≤ 0.65 KV 5KA: ≤ 0.78 KV 10KA: ≤ 1.95 KV 15KA: ≤ 1.00 KV 20KA: ≤ 1.20 KV		1KA: ≤ 0.70 KV 3KA: ≤ 0.80 KV 5KA: ≤ 0.95 KV 10KA: ≤ 1.30 KV 15KA: ≤ 1.50 KV	
Surge adsorption redundant mode	ten sections Current divided		five sections Current divided		three sections Current divided	
LED Display	Yes		Yes		Yes	
LED STATUS	Green : Full Protection, Green+Red : Reduce Protection and Red : No Protection					
7-Segment Display	Yes		No		No	
7-Segment Status	Lightning Counter and Surge Counter		-		-	
Remote monitor	Yes		Yes		Yes	
Dimension(W×H×D)	290×148×73mm (S) 390×290×120mm (T)		254×145×63mm (Single Phase) 250×154×84mm (Three Phase)			