osi1218 Series

25 kW;100 kV;efficiency>80%



Product introduction

The osi1218 series is an enclosed,programmable,low-ripple HV supply providing voltages up to100 kV and power25 kW.The fast-response supply uses air insulation,making it lighter and more environmentally friendly than oil-cooled supplies.

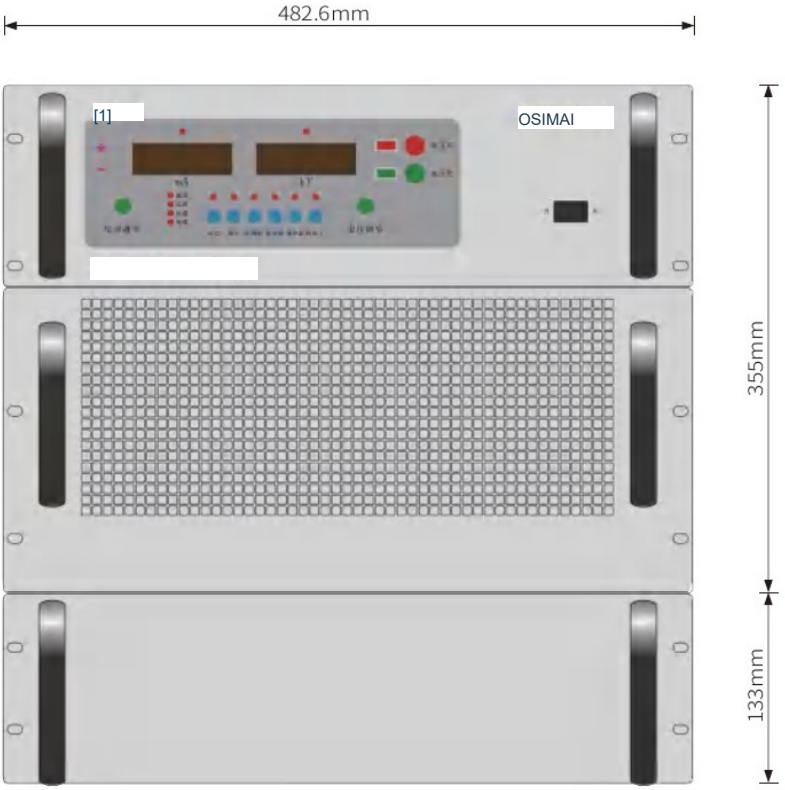
Product features

- 0–100% programmable voltage/current
- Local,analog,and RS232/USB digital control;Ethernet optional
- Three-phase AC input;480 VAC standard;380 or415 VAC optional
- Voltage/current adjustment
- Voltage/current monitor outputs
- Short-circuit,arc,overload and thermal protection
- Efficiency>80%
- Low ripple<0.1% RMS of rated voltage at full load

Specifications

Parameter	Specification
Input	Standard three phase480 VAC ±10%,48–63 Hz,maximum35 kVA,<45 A RMS per phase.Leakage current<50 A peak.A five-position terminal block is provided for AC connection.Service must be protected by fuses or circuit breakers rated no more than175 A.
Efficiency	Typically>80% at full load.
Output control	Continuous stable adjustment through a panel-mounted rotary encoder or external0 to+10 V signal.
Voltage regulation	Load:0.01% from no load to rated load.Line:±0.01% for ±10% input-voltage variation.
Current regulation	Load:0.01% from no load to rated load.Line:±0.01% for ±10% input-voltage variation.
Ripple	Better than0.1% rms at rated output.
Temperature coefficient	Voltage and current: better than 100 ppm/°C.
Stability	Less than0.05% per8 hours after0.5-hour warm-up.
Voltage rise time	Typical200 ms for15–100 kV models;typical50 ms for1–12 kV models.
Analog voltage monitor	0 to+10 V represents zero to rated voltage;reading accuracy0.5%+0.2% of rated value.
Analog current monitor	0 to+10 V represents zero to rated current;accuracy1% of reading plus0.5% of range.
RS232/USB/Ethernet programming/display resolution	0.025% of full scale for voltage/current channels.
RS232/USB/Ethernet setting accuracy	Voltage-setting accuracy better than0.5% of setting +0.2% of rated value.
RS232/USB/Ethernet readback accuracy	Voltage readback:0.5% of reading +0.2% of rated value.Current readback:1% of reading +0.5% of range.
Overtemperature	Internal overtemperature shuts down the unit and places it in OFF state.Temperature sensing detects supply or load-path fan conditions.The fault indicator is activated.
Voltage input	The PowerStage circuit is prevented from operating unless all three line voltages are active.If this condition occurs,the output shuts off and automatically restarts when normal input returns.The fault indicator is active during shutdown.
Mode status indicator	Low/high indicates output in current/voltage mode.
Monitored faults	Low input voltage;low DC voltage;overtemperature;power module and fan faults.
Status indicator	Low/high indicates output OFF/OFF.
Ambient temperature	Operating:0°C to+40°C.Storage:−20°C to+70°C.
Humidity	Operating:30–90% RH,non-condensing.Storage:10–95% RH,non-condensing.
Altitude	Operation up to5000 feet.
Cooling	Internal fan forced-air cooling.
Dimensions	Width482.6 mm,height133 mm,depth610 mm.
Weight	Approximately55 kg.

Outline dimensions



[1] osi1218