INPUT	
VOLTAGE	220 (187 to 255), Single Phase
FREQUENCY	45 to 65Hz
CURRENT	30 A RMS AT 220 VAC
	Sinusoidal Waveform
	35 A RMS Maximum at 187VAC
POWER FACTOR	>0.99 at Full Load
	THD<8% at full load
	Complies with IEC555-2
EFFICIENCY	91% typical at full load
	>90% above 25%full load
PROTECTION	internal current limit
	internal fuse protection
EMI	Complies with clispr 22 class B
INRUSH	<9 A peak for 220 VAC
SOFT START	Output current ramp-up time 5 SEC

OUTPUT	
VOLTAGE	Float: Adjustable 48 to 58V
	Equalise: Adjustable 50 to 60V
	Initial: Adjustable 20 to 65V
CURRENT LIMIT	Adjustable 4 to 112A
REGULATION	Line: -/+ 1%
(STATIC)	Load: -/+ 0.5%
REGULATION	$\pm0.5\%$ for 10% to 90% step load change
DYNAMIC)	± 1% Within 2 msec of step change
NOISE	<2 MV RMS psophometric weightin
	<10 MV RMS 10KHz to 50MHz
	<100 MV peak to peak
OAD SHARING	Active current sharing better than
	± 3% at full load
PROTECTION	HRC fuse at output
	Over voltage only faulty unit shuts down
	Over current can sustain short circuit at
	output terminals indefinitely
	Over temperature gradual reduction of
	current limit it heat-sink temperature
	exceeds pre-set limit
CONTROLS	
FRONT PANEL	Menu, INC, DEC and Enter
PUSH-BUTTONS	Push-buttons for:
	Entering configuration into menu
	Scrolling through menu
	Charging values and exitin menu

MONITORING	
OUTPUT VOLTAGE & CURRENT	Normaly displayed on front panel
	alpha-numeric LCD display
	Accurcy ± 0.5% at full load
LED INDICATORS	Ac Power : green LED
	Unit off: RED LED
	Alarm: amber LED
ALARMS	codec alarm and status indicators
	on alpha numeric LCD disply 18
	diffrent alarm and status
	conditions
REMOTE ALARMS	All alarm statesare transmitted to
	CSU via the digital Communications
	link (DCL)
OUTPUT CURRENT	Load current value is transmitted
	to CSU via digital
	Communication link

	Communication link
REMOTE CONTRO	IS
RECTIFIER INHIBIT	Rectifier can be inhibited by a signal
	from CSU transmitted via DCL
EQUALISE MODE	Equalise mode in initiated
	by a signal from CSU
	transmitted via DCL
EXTERNAL VOLTAGE	Optically coupied pwm signal from
CONTROL (EVQ)	CSU usedto control Rectifier
, ,	float and equalise voltage to
	achieve temperature
	compensation battery recharging
	current limit and active current sharing
	Over temperature gradual reduction of
	current limit it heat-sink temperature
	exceeds pre-set limit
	•
ENVIROMENTAL	
COOLING	Forced convection
	removable front panel filter
TEMPERATURE	Operation range 0 to 50°C
HUMIDITY	0 to 90% non-condensing
MECHANICAL	
DIMENSIONS	Heght 88mm ( 2 rack units )
	Width 434mm ( 19 rack )
	Depth 430mm
MASS	17 Kg



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The most compact pectifler with the latest technology in the field of power electronics with outstanding performance and feature, including

Extremely Low weight & volume

High density power

Over 6000 W of output power

• T.H.D less then 8%

Power factor greater than 0.99

High efficiency

Over 91% full load

Single phase input

Wide input range 170-275 Vac

Real Hot Plug

Rear push into plug in

Connection of AC, DC & Communications link

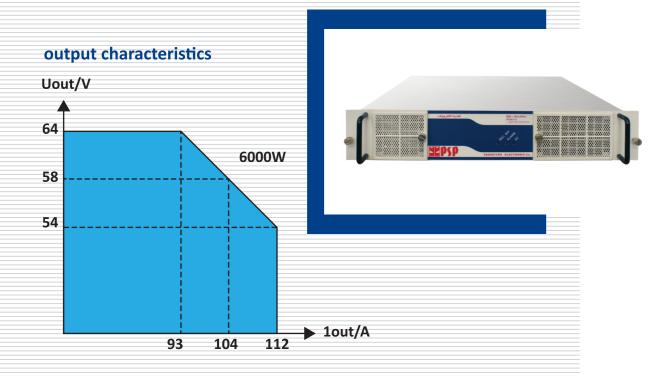
- Active and passive load sharing
- Microprocessor Based

Ability to control the rectifier via public telephone line





- The switched mode rectifier SMPS 48V-6000W is designed especiall for telecommunication power supply.
- This rectifier can be operated either stnad alone or in parallel connection with other SMPS 48V-6000W rectifiers.
- The rectifiers SMPS 48V-6000W has a constant output power limitation feature and can supply up to 6000W at specified output voltage range.



- The modules are equipped with thermal overload protection circuitry and the cooling is based on foeced convection.
- In the event of temperature rise over 80°C, output current is reduced linearly if the cooling system in faulty, the current reduction continues as low as 12A.
- Owing to the output relays and its monitoring circuitry. after turning on rectifiers, the output is kept disconnectted before it riches to the battery Voltage level This is because arcing can occur when rectifier output capacitors are charged suddenly to the battery voltage level at the time when the battery string is connected o the output bus of rectifier rack.

There are two types of racks already being manufactured by P.S.P

## Type I Rack

 Cotains maximum of twelve rectifrs chargers which can supply up to 72kw of output power at 1350 ampers it has both AC & DC boards.





## Type II Rack

- This type of rack is also known as plant rack. witch can contain up to 24 rectifiers/chargers of maximum 144kw at 2700 Ampers it has separate AC & DC and battery boards. Type II rack can be exoanded up to 36 rectifiers Located in four racks which all being controlled by one MUCS. The total output power can be as high as 4x72kw
- Both types I & II racks have the following dimensions
   H= 1800 mm
   W= 600 mm
   D= 600 mm
- Rectifiers can be controlled by a PC or public telephone line via RS232 port located in the rack tray in the front panel of type I & II.
- Type II racks are compatible with PSP plant racks already in operation in the iranian telecommunication sites.



