

Glow Power Technologies is one of the largest O.E.M manufacturers of Solar Off Grid Inverters, Online UPS Systems, Servo Voltage Stabilizers, D.G Cranking Systems for Generators, Charge Controllers, DC & AC Junction Boxes and also we are E.P.C Contractors.













Company Strategy



Vision:

To provide quality products in Solar/Power back up & Power Conditioning equipment that exceeds the expectations of our esteemed customers.



Mission statement:

To build long term relationships with our customers and clients and provide exceptional products by pursuing business through innovation and advanced technology.



Goals

Regional expansion in the field of Power Electronics and develop a strong base of key customers. Increase the R&D of the company to support the development of Products. To build good reputation in the field of Power Electronics and Renewable Energy and become a key player in the industry.

Purpose

To be a leader in the Solar Inverters and Charge Controllers,
Online UPS systems,
Servo Stabilizers, power electronics industry by providing quality Products,
enhanced
services, relationship and profitability.

Core values

We believe in treating our customers with respect and faith • We grow through creativity, invention and innovation.• We integrate honesty, integrity and business ethics into all aspects of our business functioning.



Key Process

Latest technology and manufacturing equipment and quality work force has improved the quality of products. Even the PCBs are being made fine with advanced equipment.

Manufacturing of all systems starts with the selection & procurement of raw material, inward quality inspection, PCB assembly, PCB level testing, Mechanical Assembly, Wiring, In process QA, Pretest QA, Unit Level Testing, High Power Testing, Final Heat Run & Pre Dispatch Inspection.

Glow Power Quality Initiatives

→ QUALITY PLAN

Detailed document that sets forth practices and sequence of activities

→ SUPPLIER AUDITS

To ensure that supplier is following the processes and procedures that agreed during the selection processes

→ IQC INSPECTION

To ensure that all the raw materials are meeting the require specifications

→ LINE AUDITS

To ensure that the products being manufactured are complying with specifications/requirements

→ FG AUDITS

To ensure that the final products manufactured are complying with specifications/requirements

General Business Activities •

- GPT is group company of ELMAS MAGNETICS PVT LTD (ELMAS) .
- GPT has been and is reliable supplier for many OEMs in the Solar Industry, GPT client list includes names like Tata, HBL, Havells, SELCO, Kirloskar, Gilbarco Veedor Root, IOCL,BPCL,HPCL and other oil companies along with PAN India Distributors
- GPT provide solutions from design to manufacturing which includes design verification & validations along with customers in process of sample, pilot lot manufacturing & finally mass production manufacturing.

Why GPT?

- · Established cost efficient quality manufacturer
- Proven track record of supplies to major customers
- In house R&D with more than 30 years of experienced core design team
- Competent technical team for engineering, production and meeting deliverables
- Having established vendor base
- Customer Focused
- Based customer requirement & demand GPT will provide customized power products.
- Proven capability in designing product as per customer specification or bespoke products
- Maintaining NDA of customers product design and product.





SOLAR OFFGRID INVERTER WITH PWM SOLAR CHARGER

TECHNICAL SPECIFICATION

| CAPACITY/ VA | | | 850 | 1050 | 800/100 | 0/1400/2000 | 2500 | 4000 | 5000 | |
|------------------|-----------------------------------|--------------------------|--|-----------|----------|----------------|----------|------------|--------------|--|
| CAPACITY/ WA | TTS | | 630 | 750 | - | 0/1100/1600 | 2000 | 3000 | 4000 | |
| Battery VDC | | | 12 | 12 | 550,55 | 24 | 48 | 48 | 48 | |
| Voc | | | 23 | 23 | | 45 | 90 | 90 | 90 | |
| SOLAR CHARGE | CONTROLLE | R - PWM | 30A | 30A | | 30A | 30A | 50A | 50A | |
| Nominal Outpu | | | | 220 | V AC Nor | ninal (230/240 | V AC Se | lectable) | | |
| User Selection I | | | ı | JPS Mode | | | | TER Mode | | |
| | | Acceptable Voltage Range | 17 | 75 -270Va | 2 | | 100 | - 300Vac | | |
| | | Low Voltage Cutoff | 180±5Vac | | | | ±10Vac | | | |
| Input | Voltage | Low Voltage Recovery | | 190±5Vac | | | | ±10Vac | | |
| | Range | High Voltage Cutoff | 2 | 265±5Vac | | | 290 | ±10Vac | | |
| | | High Voltage Recovery | 2 | 255±5Vac | | | 275 | ±10Vac | | |
| | | Frequency | | | 50Hz 1 | Nominal (47-5 | 3Hz Rang | e) | | |
| | Voltage Re | gulation On Mains | | | S | ame as Mains | input | | | |
| | Voltage Re | gulation in Battery mode | | 220V A | C Nomina | al +/-2% (230/ | 240 V AC | Selectable | e) | |
| Output | Freq.Reg | Mains Mode | | | S | ame as Mains | input | | | |
| Output | | Battery Mode | | | | 50Hz ±0.1H | IZ | | | |
| | Wave Form | | | | | Pure Sine Wa | ave | | | |
| | Efficiency | | | | ≥82%(| 12VDC);≥85%(| 24/48VD | C) | | |
| | Over Load | | For 100% Load - Buzzer Indication, 101% above Load Trips and Retry for | | | | | | | |
| | Output Short Circuit | | Circuit Breaker On Mains, Shutdown on Inverter | | | | | | | |
| | Battery Reverse Protection | | Fuse / MCB | | | | | | | |
| Protections | Low Battery | | Load Disconnection | | | | | | | |
| | Thermal Shutdown | | Below 0°C and Above 90°C | | | | | | | |
| | Lightening/Surge | | Protected upto 4KV Surge | | | | | | | |
| | Solar Reverse | | Blocking Diode is provided to Prevent reverse flow of current | | | | | | | |
| Shared Chargi | ng | | On priority it will charge from solar only as long as it is giving sufficient current. When Solar Current drops to below set point, then shared charging is activated and to balance current it will charge from Grid. In this Mode it will charge the battery form Solar + Grid in Sharing | | | | | | | |
| | Cuid Buisair | | Grid charging starts only when Solar Current is less than set value | | | | | | | |
| Priority | Grid Priori | LY | It will shift to battery mode if battery is full from solar(i.e14.4VDC for 12V system) | | | | | | | |
| | | | In this mode it will charge the Battery only from Solar | | | | | | | |
| | Solar Priority | | When Battery is completely discharged, Solar is not available then only it will connect to Grid and Shared charging is activated till the Battery is Full. | | | | | | | |
| Environmental | Operating | Temperature | 0-45°C | | | | | | | |
| z | Relative H | umidity | | | | 0-95% | | | | |
| Change Over t | ime | | | | | < 20ms | | | | |
| LED Display | | | Mains ON(RED);Charging On Mains(RED),Charging On Solar(GREEN), Dual(YELLOW); Inverter(GREEN); Battery low(YELLOW/RED);Overload/Short Circuit(YELLOW/GREEN) | | | | | | erload/Short | |
| LCD Display | | | Battery Voltage; I/P Voltage; I/P Frequency; O/P Voltage; Grid Charging Current; Solar Voltage; Solar Charging Current; Solar Units Saved KWH(up to 999.9Units); Grid Priority/Solar Priority; Load %; Over Load; Battery Low; UPS/INV Mode | | | | | | | |





SOLAR OFFGRID INVERTER WITH MPPT SOLAR CHARGER (SINGLE PHASE)

TECHNICAL SPECIFICATION

| CADACITY | IO (A | | | _ | 7.5 | 7.5 | 10 | 10 | 12.5 | 15 | 20 | | |
|-----------------------------|-------------------------------------|--|---|-----------|---|------------|-----------|---------|-----------|------------|----------|--|--|
| CAPACITY | KVA KW | | 5 4 | 6 5 | 7.5 6 | 7.5 6 | 10 8 | 10 8 | 10 | 15 12.5 | 20 16 | | |
| | | | | | _ | | _ | _ | | | | | |
| Battery | Vdc | | 96 96 96 120 120 240 240 240 240 | | | | | | | | | | |
| 0 11 11 0 | Voc | | 450 | | | | | | | | | | |
| Switching By | | | IGBT | | | | | | | | | | |
| Nominal Outp | | | | | | 220/23 | | | | | | | |
| User Selection Mode | | | | | | | ΓER Mo | | | | | | |
| | | Acceptable Voltage Range | | | | | | | | | | | |
| | | Low Voltage Cutoff | 110±10Vac | | | | | | | | | | |
| Input | Voltage | Low Voltage Recovery | | | | | ±10Vac | | | | | | |
| · | Range | High Voltage Cutoff | 290±10Vac | | | | | | | | | | |
| | | High Voltage Recovery | | | | | ±10Vac | | | | | | |
| | | Frequency | Same as | Mains i | nput(4 | 7-53Hz) | | | | | | | |
| Voltage Regulation On Mains | | | Same as | Mains i | nput | | | | | | | | |
| | Voltage Re | egulation in Battery mode | 220V A | C Nomin | al +/-29 | %(Range | 210-24 | OV sele | ctable |) | | | |
| | | Mains Mode | Same as | Mains i | nput | | | | | | | | |
| Output | Freq.Reg | Battery Mode | 50Hz ±0 | .1HZ | | | | | | | | | |
| Output | Wave Forr | Pure Sir | ne Wave | | | | | | | | | | |
| | Power Fac | Power Factor | | | 0.8 | | | | | | | | |
| | THD | THD | | | ≤3% | | | | | | | | |
| | Efficiency | | ≥85% | | | | | | | | | | |
| | | | For 100% Load Buzzer Indication, 101% above Load Trips ar | | | | | ınd | | | | | |
| | Over Load | Retry for 4times then Inverter shutsdown | | | | | | | | | | | |
| | Output Sh | ort Circuit | Circuit Breaker On Mains, Shutdown on Inverter | | | | | | | | | | |
| | Battery Re | everse Protection | Fuse | Fuse | | | | | | | | | |
| Protections | Low Batte | ry | Load Disconnection | | | | | | | | | | |
| | Thermal S | Thermal Shutdown | | | Unit inside Temperature at 90°C | | | | | | | | |
| | Lightening | Lightening/Surge | | | Protected upto 4KV Surge | | | | | | | | |
| | Solar Reve | Solar Reverse | | | Blocking Diode is provided to Prevent reverse flow of current | | | | | | | | |
| | Current Lii | miting for battery Charging | Available | | | | | | | | | | |
| Solar Charge | Controller Ty | /pe / Capacity | MPPT Charger / 50A | | | | | | | | | | |
| Battery Charg | | | Optiona | l Batter | / curre | nt limit o | during le | ow load | d on so | lar par | nel | | |
| ol : | Charging s | witch OFF | Optional Battery current limit during low load on solar panel It will charge form solar | | | | | | | | | | |
| Charging | Charging s | | It will charge from grid when solar charging current is Low | | | | | | | | | | |
| | Operating | Ambient Temperature | | o 50°C | | | | | | | | | |
| Environmenta | • | • | 0-95% | | | | | | | | | | |
| Change Over | | • | < 20ms | | | | | | | | | | |
| LED Display | | | harger,0 | Output | Fault | | | | | | | | |
| ELD Display | | | | | | Freque | ncv:Ω/ | P Volta | ge: Gri | id | | | |
| | | Batter Voltage; I/P Voltage;I/P Frequency;O/P Voltage; Grid Charging Current; Solar Voltage; Solar Charging Current; Solar | | | | | | | | | | | |
| | | | ved KW | | _ | • | _ | _ | | | | | |
| LCD Display | | | | S/INV N | | . 200.00 | | | - V-C. E. | - 30, 50 | , | | |
| RMS: | | | All MPPT | Single Ph | nase Inv | | | have th | e comp | atibility | | | |
| | for Remote Monitoring System (RMS). | | | | | | | | | | | | |





SLOW FOWER TECHNOLOGIES

SOLAR OFFGRID INVERTER WITH MPPT SOLAR CHARGER - 3Ph I/P-3Ph O/P

TECHNICAL SPECIFICATION

| RATING | KVA | | 12.5 | 15 | 20 | 25 | 30 | 40 | | |
|-------------------------------|---|---------------------------------------|---|----------------------------|---------------|----------|----------------|-------------------|--|--|
| O/P Capacity | KW | | 10 | 12 | 16 | 20 | 24 | 32 | | |
| Solar Panels Ma | x Supporte | d KW | 10 | 12 | 16 | 20 | 24 | 32 | | |
| Solar MPPT Cha | rger Outpu | t Rating | | | 50/60A | mps | • | | | |
| Battery VDC | | | | | 240 V | 'dc | | | | |
| Voc | | | 450V/600V(optional) | | | | | | | |
| Switching By | | | IGBT | | | | | | | |
| Nominal Outpu | t Voltage | | | L-L 400 | O V AC +/- 29 | % /230 ' | V AC L-N | | | |
| | | | | | | , | | | | |
| | | Assentable Voltage Bange | | 17 | 0 290Vac De | or Dhace | s I. Ni | | | |
| | Voltage | Acceptable Voltage Range Frequency | | | 0-280Vac Pe | | | | | |
| | Range | Input/Output Vector | | | ains input | | | | | |
| Mains Input | Range | 1 1 1 | | Star | /Star 4Wire/ | | | | | |
| | | Charging Current | | | 3A - 15A - | | | | | |
| | | to Inverter Change Over Time | | | ≤ 3 S | | | | | |
| | | ter to Mains Change Over Time | | | ≤1S | | | | | |
| | | gulation On Mains | | | ne as Mains | | | | | |
| | Voltage Re | gulation in Battery mode | 230V AC | | | | selectable) Pe | r Phase L-N | | |
| | | Mains Mode | | | Same as Ma | | | | | |
| Output | Freq.Reg | Battery Mode | | 5 | OHz ±0.1HZ | | tz) | | | |
| | | Wave Form | | | Pure Sine | | | | | |
| | | Power Factor | | | 0.8 | | | | | |
| | Power Factor THD V Efficiency Crest Factor Over Load | | | at linear lo | | | | | | |
| | | Efficiency | | ≥85% { pe | ak efficienc | y of inv | erter ≥90%} | | | |
| | | Crest Factor | | | 3:: | L | | | | |
| | | Over Load | For 100% Load Buzzer Indication, 101% above Load Trips and Retry for 4times then Inverter shutsdown $\{>110\%$ -<150% for 5 Minutes to 16 St 150% - <200% For 15 Sec to 5 Sec, \geq 200% <300% For 4Sec to 2 Sec, $>$ 30 for 1 Second $\}$ | | | | | es to 16 Sec, ≥ | | |
| Protections | | | (Inverter Over Voltage, Inverter OverLoad, Inverter Temperature, PV Under / Over Voltage Cutt - OFF, Battery Reverse Polarity Protection, Mains Under/Over Frequency, Mains Under/Over Voltage, Battery Under Voltage, Short circuit Protection, Surge protection. | | | | | | | |
| | | Output Short Circuit | Circuit Breaker | On Mains, Sh | utdown on | Inverte | r | | | |
| | E | Battery Reverse Protection | Circuit Breaker | | | | | | | |
| | | Low Battery | Load Disconne | ction | | | | | | |
| | | Thermal Shutdown | Unit inside Ten | nperature at | 90°C | | | | | |
| | | Lightening/Surge | Protected upto | 4KV Surge | | | | | | |
| | | Solar Reverse | Blocking Diode | is provided to | o Prevent re | verse fl | ow of current | | | |
| | Curre | nt Limiting for battery Charging | Available 10A-50A | | | | | | | |
| | Battery | Charging Current | Optional Batte | ry current lim | it during lov | / load o | n solar panel | | | |
| | | | NOMINAL DC \ | OLTAGE 240 | /dc | | | | | |
| | | | DC LOW BATTE | RY VOLTAGE | cut 220+/-2 | V | | | | |
| | BATTER | Y PARAMETERS | DC Low Voltage | | | | | | | |
| | | | | DC BOOST VOLTAGE 292 +/-2V | | | | | | |
| | | | DC VOLTAGE HIGH CUT 320+/-2V | | | | | | | |
| | | Solar Priority | It will charge for | | , | | | | | |
| Priority | | Grid Priority | It will charge fr | | when solar c | harging | current is Lo | N | | |
| | One | erating Ambient Temperature | -10°C to 50°C | | | | , | | | |
| Environmental | Орс | Relative Humidity | 0-95% { 0 TO 9 | | | | | | | |
| | L | ED Display | Input Mains RY | B ,Charging C | n GRID,Cha | 0 0 | | | | |
| LCD Display | | | RYB,Overload,Low Battery (Mains ON, Alarm ON, Buzzer Mute) Battery Voltage; I/P Voltage; /P Frequency;O/P Voltage; Grid Charging Current; Solar Voltage; Solar Charging Current; Solar Units Saved KWH(up to 999.9Units); Load %; Over Load; Battery Low; UPS/INV Mode (SCROLLING) {20x4 line lcd} | | | | | | | |
| Acoustic Noise (At one meter) | | | ≤65db | | | | | | | |
| W | eight with | out Packing +/-20Kg | 100Kg | 120Kg | 140Kg | 150Kg | | 160Kg | | |
| | Operati | ng Temperature | (-10 Deg C to 5 | 0 Deg C) | | | | | | |
| | | Features | (Three Stage battern Compen | | g for better | battery | Life, Battery | current Limiting, | | |
| | | | for VRLA Type Inbuit Data Log | | | | | | | |
| | Circ | cuit Breaker | (Solar Input, Ba | attery Input | arid Input an | d Load |) | | | |
| | Circ | cuit Breaker | [(Solar Input, Ba | attery Input, G | rid Input an | d Load) |) | | | |



TECHNICAL SPECIFICATION

| Model | GPU1K | GPU2K | GPU3K | GPU6K | GPU010K | | |
|---|-----------------|--|----------------------|--|---|--|--|
| PHASE | | Sir | igle Phase with Grou | nd | | | |
| CAPACITY | 1000 VA / 800 W | 2000 VA / 1600 W | 3000 VA / 2400 W | 6000 VA / 4800 W | 10000 VA / 8000 W | | |
| INPUT | | | | | | | |
| Nominal Voltage | 20 | 0/208/220/230/240V | AC | 208/220/2 | 30/240VAC | | |
| Input Voltage Range | | VAC (Based on load VAC (Based on load a | | | ed on load at 50%) ed on load at 100%) | | |
| Frequency Range | | 40Hz ~ 70 Hz | | 46~54 Hz | or 56~64 Hz | | |
| Power Factor | | ≥ 0.99 @ 1 | Nominal Voltage (100 | 0% load) | | | |
| OUTPUT | | | | | | | |
| Output Voltage | 20 | 00/208/220/230/240V | 'AC | 208/220/ | 230/240VAC | | |
| Voltage Regulation | | | ± 1% | | | | |
| Frequency Range (Synchronized Range) | 4 | 7~ 53 Hz or 57 ~ 63 | Hz | 46~54 Hz | or 56~64 Hz | | |
| Frequency Range (Batt. Mode) | 50 Hz | ± 0.25 Hz or 60Hz ± | 0.3 Hz | 50 Hz or 6 | 0Hz ± 0.1 Hz | | |
| Crest Factor | | | 3:1 | | | | |
| Harmonic Distortion | | 3% THD (Linear Loa % THD (Non-linear L | | ≤ 3% THD (Linear Load) ≤ 5% THD (Non-linear Load) | | | |
| TRANSFER TIME | | | | | | | |
| AC Mode to Battery Mode | | | Zero | | | | |
| Inverter to Bypass | | 4 ms (Typical) | | Z | ero | | |
| Waveform | | | Pure Sinewave | | | | |
| EFFICIENCY | | | | | | | |
| Overall Efficiency | | >90% | | >9 | 2% | | |
| BATTERY | | | | | | | |
| Number of batteries | 3 | 6/8 | 3 | 16 | 5/20 | | |
| Charging Current (max.) | 1A | /2A/4A/6A (Adjustab | le) | | A (Adjustable, e for 16pcs batteries | | |
| INDICATORS | | | | | | | |
| LCD Panel | Load leve | l, Battery level, AC m | ode, Battery mode, | Bypass mode, and Fa | ult indicators | | |
| ALARM | | | | | | | |
| Battery Mode | | S | ounding every 4 sec | onds | | | |
| Low Battery | | | Sounding every seco | ond | | | |
| Overload | | Soi | unding twice every s | econd | | | |
| Fault | | | Continuously soundi | ng | | | |
| PHYSICAL | | | | | | | |
| Dimension, D X W X H (mm) | 282 x 145 x 220 | 397 x 145 | 5 x 220 | 369 x 190 x 318 | 442 x 190 x 318 | | |
| Net Weight (kgs) | 4.1 | 6.8 | 7.4 | 12 | 16 | | |
| ENVIRONMENT | | | | | | | |
| Operation Humidity | 20-90 % [| RH @ 0- 40°C (non-co | ndensing) | 0-95% RH @ 0-50°C (non-condensing) | 0-95% RH @ 0-40°C (non-condensing) | | |
| Noise Level | Les | s than 50dBA @ 1 Me | eter | Less than 55dBA @ 1 Meter | Less than 55dBA @ Less than 58dBA @ | | |
| MANAGEMENT | | | | | | | |
| Smart RS-232/USB | Sup | ports Windows® 2000 | 0/2003/XP/Vista/200 | B/7/8, Linux, Unix, and | MAC | | |
| Optional SNMP | 1,000 | Power manageme | nt from SNMP mana | ger and web browser | | | |
| STANDARDS | | IP20, IEC62040-3, I | FN62040-1.2 COM | PLIANCE : CE / ROHS | | | |

Sailent Features

- True online double convension
- Microprocessor control optimizes reliability
- Active Power Factor Correction
- Wide Input Range (110V-300V)
- Selectable Output Voltage 1200/208/220/230/240 VAC)
- ECO Mode Operation for Energy Saving
- Emergency Power off Function (available only in 6 & 10 KVA)
- 0.9 Power Factor
- Comprehensive LCD Display
 & LED Indicator
- Supports USB / RS 232
- Standalone & Hot Standby Operation
- Optional :

In-Built Isolation transformer

 Optional: In-Built battery model (1 - 3 KVA Only)



GLOW POWER TECHNOLOGIE

Capacity Range upto 25KVA, 1Ph



Protections

High voltage protectionLow Voltage Protection

with Relay / Contactor

Overload protection

with MCB

Short circuit protection

1 PH SCVS Dimensions (mm)

| Capacity | Width | Depth | Height | Weight/kgs |
|----------|-------|-------|--------|------------|
| 1 KVA | 280 | 310 | 300 | 16 |
| 2 KVA | 280 | 310 | 300 | 18 |
| 3 KVA | 300 | 430 | 300 | 28 |
| 5 KVA | 300 | 430 | 300 | 33 |
| 7.5 KVA | 360 | 470 | 310 | 55 |
| 10 KVA | 360 | 470 | 310 | 60 |
| 15 KVA | 440 | 470 | 800 | 100 |

Input Connection

• 1 & 2 KVA - Power Card with Plug Top • 3 KVA to 10 KVA with Connectors • Above 10 KVA nut & bolt termination

Technical Specifications

Input Voltage Range : 170-270V AC, 50 Hz
Output Voltage : 230V AC 50 Hz 1Phase

Operating Frequency : 47 to 53 HzOutput regulation : $\pm 1\%$ Correction Speed : 35V/secLine regulation : $\pm 1\%$ Load regulation : $\pm 1\%$ Wave-form distortion : Nil
Power factor effect : Nil

Output wave -form : True reproduction of Input
Type of cooling : Natural Air-cooled
System Construction : As per IS:9815

Efficiency : 98.5%
Response Time : 10 milli sec.

Servo Motor Drive

: rugged ac step synchronous

motor

Enclosure : IP32 Indication on Front Panel

- Input ON
- Output ON
- Output CUT-OFF
- Input LOW
- Input HIGH
- 0-300 V 72 Sq. mm analog meter to read output voltage

Output Connection

- 1 & 2 KVA Sockets
- 3 KVA to 10 KVA with Connectors
- Above 10 KVA nut & bolt termination

Static Voltage Stabilizer Capacity Range upto 150 KVA 3Ph

With Very High Speed of Correction provides perfectly stable output even under severe conditions of unbalanced voltage conditions. Ideal to protect the electrical and electronic equipments from high and low voltage.



Salient Features

- IGBT PWM AC to AC Switching control
- Individual Phase control
- Quick response time <10 milli sec (half a cycle)
- Very high efficiency above 98%
- Excellent regulation as high as +/- 0.5%
- Wide input range of operations
- Very high speed of correction 3000V per Second

Protections

- Input Short Circuit Protection with MCB
- Input Over Load Protection with MCB
- Output Low Voltage Protection
- Output High Voltage Protection
- Single Phase preventer
- Output Electronic Over Load Protection

Input Voltage Range : 300 - 460V / 340 - 480V / 360 - 460V AC 3 Ph

Output Voltage (3 Ph) : 415V AC
Operating Freequency : 47 - 53 Hz

Metering

- 3ph Input volt meter to read ph to ph and ph to Neutral Voltages at Input & Output with selector switch
- 3ph Ammeter to read Output Current on each ph

Indications

Mains on Indication on each phase 3

LEDs

2 Phase Output on Indiacation

Micro Controlled Voltage Stabilizer 3 Phase Air Cooled

Capacity Range upto 250 KVA





Protections

Single Phasing Prevention

Input Short Circuit Protection with MCB / MCCB

Input Over Load Protection with MCB / MCCB

Output Low Voltage Protection

Output High Voltage Protection

Indications

Mains Input on 3 LED Indications,

3ph output on indication

Indications in LCD Display

Input High and Input low

Output on indication

Output high Cutoff and Output Low Cutoff

Programmable Parameters

• Output voltage set (210-245V)

• Output Low Voltage Cutoff

• Output High Voltage Cutoff

Input Low on LCD Display

Input High on LCD Display

Sensitivity / Regulation

• Over Load Cutoff

• CT full scale

Provides perfectly stable output even under severe conditions of unbalanced voltage conditions. Ideal to protect the electrical and electronic equipments from high and low voltages.

Technical Specifications

Input Voltage Range : 300 - 460V / 340 - 480V / 360 - 460V

AC 3 Ph

Output Voltage (3 Ph) : 415V AC

System : Unbalanced 4 wire: R Y B N

Connections : Star

Operating Frequency : 47 to 53 Hz Output Voltage Regulation : \pm 1% (No Load) Output Voltage Regulation : \pm 1%

(Full Load) Overload Capacity: 120%

Correction Rate : 60 / 30 / 25V per Sec-3 Phase

Waveform Distortion : Nil

Output Waveform : True Reproduction of Input

Insulation : Class F

Short Circuit period &

Percentage : 300% for 250 Milli

Sec. Normal Operation Temperature : 0^0 C to 45^0

C

Climate Conditions : 90% Rh Max. Non Condensing at 35⁰C Type of Cooling : Natural air cooled up to 600 KVA

Mode of system : Fully Automatic

System Construction : As per IS: 9815 – 1994

Salient Features

• Quick response time 10 milli sec (half a cycle)

• Very high efficiency above 98%

Excellent regulation as high as +/- 0.5%

• "Micro controller" controlled system

• Wide input range of operations & high speed of correction

Metering On LCD Display

• 3ph Input voltage ph to ph and ph to Neutral

• 3ph Output voltage ph to ph and ph to Neutral

• System Frequency

• Output Current on each phase

Programmable Control Timings

Over load Cutoff Time

Auto Restart Time

On & Off Delay Time

Micro Controlled Voltage Stabilizer 3 Phase Oil Cooled

Capacity Range upto 1000 KVA 3 Ph



Provides perfectly stable output even under severe conditions of unbalanced voltage conditions. Ideal to protect the electrical and electronic equipments from high and low voltage.



Protections

- Single Phasing Prevention
- Output Electronic Over Load Protection
- Phase Reversal Protection
- Input Short Circuit Protection with MCB
- Input Over Load Protection with MCB
- Output Low Voltage Protection
- Output High Voltage Protection
- Audio Alarm for Protections

Indications

- Mains Input on 3 LED Indications,
- 3ph output on indication
- Phase Reversal indication
- over Load indication

Indications in LCD Display

- Input High and Input low
- Output on indication
- Output high Cutoff and Output Low Cutoff

Programmable Parameters

- Output voltage set (210-245V)
- Output Low Voltage Cutoff
- Output High Voltage Cutoff
- Input Low on LCD Display
- Input High on LCD Display
- Sensitivity / Regulation
- Over Load Cutoff
- CT full scale

Programmable Control Timings

- Over load Cutoff Time
- Auto Restart Time
- On & Off Delay Time

Technical Specifications

Input Voltage Range : 300 - 460V / 340 - 480V / 360 - 460V

AC 3 Ph

Output Voltage (3 Ph) : 415V AC

System : Unbalanced 4 wire: R Y B N

Connections : Star

Operating Frequency : 47 to 53 Hz

Output Voltage Adjustable : 380 to 415V AC in 3 Ph

Output Voltage Regulation : $\pm 1\%$ (No Load)
Output Voltage Regulation : $\pm 1\%$ (Full Load)

Overload Capacity : 120%

Correction Rate : 60 / 25 / 15V per Sec-3 Phase

Waveform Distortion : Nil

Output Waveform : True Reproduction of Input

Insulation : Class B

Short Circuit period &

Percentage : 300% for 250 Milli Sec.

Normal Operation Temperature: 0° C to 45° C

Climate Conditions : 90% Rh Max. Non Condensing at 35°C Type of Cooling : Natural Oil cooled up to 5000 KVA

Mode of system : Fully Automatic

System Construction : As per IS: 9815 – 1994

Salient Features

- Quick response time 10 milli sec (half a cycle)
- Very high efficiency above 98%
- Excellent regulation as high as +/- 0.5%
- "Micro controller" controlled system
- Wide input range of operations & high speed of correction

Metering On LCD Display

- 3ph Input voltage ph to ph and ph to Neutral
- 3ph Output voltage ph to ph and ph to Neutral
- System Frequency
- Output Current on each ph

Programmable Controls

- Display Scrolling -Auto / Manual
- Start / Stop Buttons

Menu / Start / Stop / Reset / Log Button

Very Important For CSD Analysis Problems



DG Cranking Systems





D.G. Cranking System" or as they are so often referred to Electro-Chemical Capacitors (Ecs) Super Capacitors, have become increasingly interesting for Internal Combustion (IC) Engine Starting Diesel Generator, and automotive applications.

D.G.Cranking System product highlights:

- Less weight than battery.
- Prectically maintenance free.
- Long service life and less degradation over thousands of cycles.
- Super capacitor oprating temperature range 0'c to 50'c
- Low maintenance and eliminates the periodic running of Gen-Set Very less charging time compared to battery & very low
- Safe environment and Low toxicity.
- Charging method isolated constant current.
- Input source from 40V-60V DC or 230V AC optional.
- In-built charger ensure that super capacitor is always full charged.
 - Very less charging time compared to battery & very low discharge rate, high cranking amps.

| C | apacitor Unit: | |
|-----|--|--|
| No. | PARAMETER | SPECIFICATION |
| 1 | Capacitor Voltage | 15.5 V |
| 2 | Capacitance | 120 F |
| 3 | DG Cranking Current Sustainability | Approx. 500A |
| 4 | Triggering Cycles (Full Charge Condition) | Approx 2-3 (upto 40KVA generator & depends on condition of generator & Cranking current) |
| 5 | Enclosure dimensions | Width 130mm, Length 270mm & Height 140mm |
| 6 | Ingress Protection class | IP 20, Powder coated |
| 7 | RoHS Compliance | Yes |
| 8 | Safety | Capacitors are approved as per UL810A |
| | | |



| In Bu | uilt Charger / Power S | upply Unit : | |
|-------|------------------------------|---|---|
| No. | PARAMETER | DC to DC Charger ESCU 12015-DC | AC to DC Charger ESCU12015-AC |
| 1 | Charger input voltage | 40V-60V | 180V-270V |
| 2 | Charger output voltage | 15.5V | 15.5V |
| 3 | Charging Current | 10A | 5A |
| 4 | Recharge Time from OV DC | 4 mins (Approx) | 10 mins (Approx) |
| 5 | Recharge Time from 11V DC | 30 sec (Approx) | 60 sec (Approx) |
| 6 | Charging Method | Constant Current | Constant Current |
| 7 | Protections | Output Short Circuit Over Load. Over Voltage. | Output Short Circuit Over Load. Over Voltage. |



| | DG Cranking System Models | | | | | | | | |
|-------|---------------------------|--------------|-----------------|----------------|----------------|-----------------------------------|---------------------------------------|----------|--|
| S.No. | DG Generator rating | load watts | Battery voltage | Battrey Ah | Capacitor Bank | GPT model AC (Input : AC 230V) | GPT model DC (Input: 40 to 60V DC) | Warranty | |
| 1 | 25KVA | 20KW | 12V | 88Ah | 120F | ESCU12615-AC | ESCU12615-DC | | |
| - | 25KVA 40KVA | 20KW 32KW | 12V 12V | 88Ah 100Ah | 190F | ESCU19015-AC | ESCU19015-DC | | |
| 4 | 45KVA | 36KW | 12V | 100Ah | | \$ | | | |
| | 62.5(63)KVA 69KVA | 50KW 55KW | 12V 12V | 120Ah 120Ah | 253F | ESCU25315-AC | ESCU25315-DC | 1 Year | |
| - 0 | OFRVA | JJK W | 124 | 120AII | | | | 1 | |
| 7 | 75KVA | 60KW | 12V | 120Ah | | | | | |
| 8 | 100KVA | 80KW | 12V | 120Ah/130Ah | 380F | ESCU38015-AC | ESCU38015-DC | | |
| 9 | 100KVA | 80KW | 12V | 120Ah/130Ah | | | | | |

Certifications & Ratings











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