

- o Less No Load current.
- o Great Power Saving upto 30%.
- o System efficiency more than 88%
- o Backup time is more than 12 to 15%.
- o Battery Charging at very low voltage till 90V.
- o Silent operation and Pure Sine Wave Output.
- o Change over time less than 10ms (for UPS application).
- o Triple protection (Overload, Short Circuit and Wiring Fault).
- o SMPS based battery charger Increase Battery Life up to 40%.
- o Compatible with all type of batteries (LA /SMF/TUB)
- o Independent charger feature charge the battery when battery is deep discharged.



TECHNICAL SPECIFICATIONS

MAINS MODE		EURO 1450 PCU	EURO 2550 PCU
1	Mains AC low cut UPS mode	175VAC±10VAC	175VAC±10VAC
2	Mains AC low cut recovery UPS mode	185VAC±10VAC	185VAC±10VAC
3	Mains AC high cut UPS mode	265VAC±10VAC	265VAC±10VAC
4	Mains AC high cut recovery UPS mode	255VAC±10VAC	255VAC±10VAC
5	Mains AC low cut WUPS mode	90VAC±10VAC	90VAC±10VAC
6	Mains AC low cut recovery WUPS mode	110VAC±10VAC	110VAC±10VAC
7	Mains AC high cut WUPS mode	295VAC±10VAC	295VAC±10VAC
8	Mains AC high cut recovery WUPS mode	285VAC±10VAC	285VAC±10VAC
9	Input frequency range	48HZ to 52HZ	48HZ to 52HZ
10	Voltage output in Mains mode	SAME AS INPUT	SAME AS INPUT
11	Charging current @ Grid priority	20A±1A	20A±1A
12	Charging current @ Battery priority		
13	Frequency output in Mains mode	SAME AS INPUT	SAME AS INPUT
BATTERY			
1	Battery type	LA/TUB/SMF	LA/TUB/SMF
2	DC input voltage	12V	24V
3	Battery quantity 12v 100AH to 220AH	1	2
4	Float charging voltage	13.7V±0.2V	27.4V±0.2V
5	Boost charging voltage for LA battery	14.0V±0.2V	28V±0.2V
6	Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V	29V±0.2V
7	Battery deep Discharge Recovery	Independent charger to recover Deep discharge battery	Independent charger to recover Deep discharge battery
BACKUP MODE			
1	Output voltage	220V+5%-10%(Untill battery low alarm)	220V+5%-10%(Untill battery low alarm)
2	Output frequency	50Hz ± 0.2Hz	50Hz ± 0.2Hz
3	Output waveform	Pure Sine Wave	Pure Sine Wave
4	No load current	1.3A±0.2A	1.3A±0.2A
5	Capacity resistive bulb load	840watt	1800watt
6	Discharging current @ full load	68A±2Amp.	70A±2Amp.
7	Low battery warning	10.8V±0.2V	21.6V±0.2V
8	Low battery cut	10.6V±0.2V	21.2V±0.2V
9	Change over time UPS mode	<10msec	<10msec
10	Change over time WUPS mode	<25msec	<25msec
11	Output voltage at full load	≥200VAC	≥200VAC
PROTECTION			
1	Overload in backup mode	≤100% load Continuously run	≤100% load Continuously run
2	Short circuit in Backup mode	System will shutdown after 3 retries	System will shutdown after 3 retries
3	Short circuit in Mains mode	Mains Fuse will Blown	AC MCB will trip
4	Reverse Battery	DC fuse will blown	DC fuse will blown
SOLAR CHARGE CONTROLLER			
1	Solar charge controller type	PWM	PWM
2	Maximum Panel wattage can be connected	600WATT	1500WATT
3	Maximum PV current	25AMP.	50AMP.
4	Reverse PV protection	YES provided, it will also display on LCD panel	YES provided, it will also display on LCD panel
5	Reverse current flow to PV	YES provided, it will also display on LCD panel	YES provided, it will also display on LCD panel
6	Option for Grid and battery priority	YES provided, user can set according to his choice whether to consume Grid or battery in order to save his bill.	YES provided, user can set according to his choice whether to consume Grid or battery in order to save his bill.
7	Sharing of current when PV and Grid Both are available	If PV power is not sufficient to charge the battery, system will start sharing battery charging from mains	If PV power is not sufficient to charge the battery, system will start sharing battery charging from mains
SAFETY			
1	HV test input to Earth	Leakage current <5ma when 1.5kv applied for 1 min	Leakage current <5ma when 1.5kv applied for 1 min
2	HV test Output to earth	Leakage current <5ma when 1.5kv applied for 1 min	Leakage current <5ma when 1.5kv applied for 1 min
3	IR test input to earth	>5MΩ between @500VDC	>5MΩ between @500VDC
4	IR test output to Earth	>5MΩ between @500VDC	>5MΩ between @500VDC
5	Earth leakage current in Mains mode	<2.5mA	<2.5mA
6	Earth leakage current in Backup mode	<2.5mA	<2.5mA
7	Operating temprature	0° to 50°C	0° to 50°C

Features:

- Less No Load current.
- Great Power Saving upto 30%.
- System efficiency more than 88%
- Backup time is more than 12 to 15%.
- Battery Charging at very low voltage till 90V.
- Silent operation and Pure Sine Wave Output.
- Change over time less than 10ms (for UPS application).
- Triple protection (Overload, Short Circuit and Wiring Fault).
- SMPS based battery charger Increase Battery Life up to 40%.
- Compatible with all type of batteries (LA /SMF/TUB)
- Independent charger feature charge the battery when battery is deep discharged.



TECHNICAL SPECIFICATIONS

Inverter Model:	EURO 2050 PCU & EURO 2350 PCU	
Programming code:	9363FCE153E4	
Parameters	SPECIFICATION	
	Solar (EURO PCU 2050)	Solar(EURO PCU 2350 /24V)
Type of Charger	PWM Charger	PWM Charger
Nominal Battery Volatge	24V	24V
Input Voltage	220V A.C.±2%	220V A.C.±2%
Output Voltage	220V A.C.±2%	220V A.C.±2%
Output(Max. Resistive Load)	1050W	1400W
No load Power consumption	<2 A	<2 A
OutputFrequency	50Hz	50Hz
ShortCircuitProtection	Yes	Yes
LowBatteryAlarm	22.0 V D.C. ±2%	22.0 V D.C. ±2%
Low Batt. cut	21.0V D.C. ±2%	21.0V D.C. ±2%
Protections:		
Over Voltage both at input & output	Yes	Yes
Over Current both at input & output	Yes	Yes
Over Frequency	Yes	Yes
Surge Voltage	Yes	Yes
Instrumentation Audio Signal	Low Batt. ,Short circuit , Over load	Low Batt. ,Short circuit , Over load
Solar Charging Voltage	28.60 V ±3%	28.60 V ±3%
Solar Reconnect Voltage	27.2 V DC.±3%	27.2 V DC.±3%
Recommended panel wattage(Max.)	1250W	1250W
Panel Voltage(Voc) Max.	45V	45V
Panel Voltage(Vmp) Max.	36V	36V
Charging Voltage (LI)	28.80V D.C. ±3%	28.80V D.C. ±3%
Reconnect Voltage(LI)	27.20V D.C. ±3%	27.20V D.C. ±3%
Charging Voltage Tublar	28.0V D.C. ±3%	28.0V D.C. ±3%
Reconnect Voltage Tublar	26.4V D.C. ±3%	26.4V D.C. ±3%
Grid Charging	15 Amp.±5%	15 Amp.±5%
Inverter High Voltage Cut	290V AC.±5%	290V AC.±5%
Inverter Low Voltage Cut	90V AC.±5%	90V AC.±5%
UPS High Voltage Cut	260 V AC.±5%	260 V AC.±5%
UPS Low Voltage Cut	185 V AC.±5%	185 V AC.±5%
Battery Terminal Wire	10Sq. mm Length=800mm	16Sq. mm Length=800mm
Display	LCD (16*2)mm	LCD (16*2)mm

Features:

- Less No Load current.
- Great Power Saving upto 30%.
- System efficiency more than 88%
- Backup time is more than 12 to 15%.
- Battery Charging at very low voltage till 90V.
- Silent operation and Pure Sine Wave Output.
- Change over time less than 10ms (for UPS application).
- Triple protection (Overload, Short Circuit and Wiring Fault).
- SMPS based battery charger Increase Battery Life up to 40%.
- Compatible with all type of batteries (LA /SMF/TUB)
- Independent charger feature charge the battery when battery is deep discharged.



TECHNICAL SPECIFICATIONS

INVERTER MODE TESTING:		Model : Euro 1750/24V LCD PCU	Model : Euro 2350/24V LCD PCU
S.No.	Parameter	Specifications	Specifications
1	Output voltage at No load	220±5V (MAX)	220±5V (MAX)
2	No load Inverter Batt current.	<=2.5A	<=2.5A
3	No load Inverter output Frequency.	50.0±0.5Hz	50.0±0.5Hz
5	Full load Inverter output Frequency.	50.0±0.5Hz	50.0±0.5Hz
6	Full load Inverter output wave form.	Sine Wave	Sine Wave
7	Full load Watt(Bulb load)	>=Rating*0.8	>=Rating*0.8
8	Inverter short circuit test.	O/P short	O/P short
9	Battery current at full load.	47+/-2AMP	58+/-2AMP
10	Fan working test.	During Charging and Backup	During Charging and Backup
11	Battery low voltage alarm	21.6V+/-0.2V	21.6V+/-0.2V
12	Battery low cut/trip voltage	21.0V+/-0.2V	21.0V+/-0.2V
S.No.	SOLAR CHARGE CONTROLLER		
1	Charge controller type	PWM based	PWM based
2	Solar battery charging current	40AMP/50AMP	40AMP/50AMP
3	Peak solar PV current	40AMP/50AMP	40AMP/50AMP
4	Solar battery low cut voltage	22.00v to 23.4v depending on solar current & load current	22.00v to 23.4v depending on solar current & load current
5	PV Reverse polarity protection	Available	Available
6	Reverse current flow to Pvprotection	Available	Available
S.No.	Features	Specifications	Specifications
1	Batt Low Retry INV mode	1	1
2	Batt Low Retry UPS mode	0	0
3	Over Lode Retry UPS mode	0	0
4	Overload Retry INV mode	5	5
5	Short Circuit Retry	Instantaneous	Instantaneous
6	Input and Output Short	short ckt protection	short ckt protection
Audio & Visual indication		Specifications	Specifications
1	Batt Low Alarm	Audio & Visual	Audio & Visual
2	Batt Low Shutdown	Visual	Visual
3	Overload Alarm	Audio & Visual	Audio & Visual
4	Overload Shutdown	Visual	Visual
5	Short circuit Shutdown	Audio & Visual	Audio & Visual
MAINS MODE TESTING		Specifications	Specifications
UPS MODE		UPS MODE // INV MODE	UPS MODE // INV MODE
1	Mains voltage low cut	180V+-5V // 90V +-10V	180V+-5V // 90V +-10V
2	Mains voltage low recovery	190V+-5V // 110V +-10V	190V+-5V // 110V +-10V
3	Mains voltage high cut	265V+-5V // 285V +-10V	265V+-5V // 285V +-10V
4	Mains voltage high cut recovery	255V+-5V // 275V +-10V	255V+-5V // 275V +-10V
5	Output Frequency	same as in put	same as in put
6	Change over time Mains to Inverter.	20 ms INV // 05ms UPS	20 ms INV // 05ms UPS
7	Change over time Inverter to Mains.	<10ms INV // 05ms UPS	<10ms INV // 05ms UPS
8	Output wave form.	SAME AS I/P	SAME AS I/P
CHARGING MODE TESTING :			
S.No.	Parameter	Specifications	Specifications
1	Battery Boost voltage	29.0V TB / 28V SMF ±0.2V	29.0V TB / 28V SMF ±0.2V
2	Battery charging current.	15A ±1.0A	15A ±1.0A
Audio & Visual indication		Specifications	Specifications
1	Mains	Visual	Visual
2	Inverter on	Visual	Visual
3	Battery charging	Visual	Visual
4	Battery charged	Visual (Battery Bar full on LCD Display)	Visual (Battery Bar full on LCD Display)
5	Ba ery Low	Audio & Visual	Audio & Visual
6	Overload	Audio & Visual	Audio & Visual