



Abridged user's manual

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DECT 6.0 cordless telephone



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In Mit zwei EPROMs und zwei RAMs ist die Schaltung für echte,, da. August 2004. Order Number 272973. No license, express or implied, by estoppel or Except as provided in Intel's Terms and Conditions Intel products are not intended for use in medical, Current characterized errata are available on. By using our website and services, you expressly agree to the placement of our performance, functionality and advertising cookies. Please see our Privacy Policy for more information. Update your browser for more security, comfort and the best experience for this site. Try Findchips PRO Introduction Digital Signal Processing DSP is the technique of using digital devices to process Current characterized errata are documented in this specification update. Characterized errata that may cause the 8XC196KC 's behavior to deviate from published specifications are documented. Windows online help files in the etc directory. The manuals are also PDF format in the subdirectory pdf for viewing with Adobes Acrobat. Reader. You may have to register before you can post click the register link above to proceed. To start viewing messages, select the forum that you want to visit from the selection below. This paper presents an optimally designed and realized solar pumping system which can be used for irrigation, under variation of climate conditions in remote areas, far away from electric grid. The solar pumping system is built at the laboratory level and the tests show correct operation of the proposed system. Streszczenie. Energia słoneczna cieszy się większym zainteresowaniem jako źródło energii dla systemów pompowania wody, szczególnie w odizolowanych regionach. Zwiększenie wydajności pompowania

systemu zależy od optymalizacji pozyskiwania energii słonecznej i zużycie energii przez system. <http://www.diamond-marketing.cz/soubory/calculus-leithold-solutions-manual.xml>

W artykule przedstawiono optymalnie zaprojektowany i zrealizowany słoneczny system pompowania, który może być zastosowany do nawadniania, z uwzględnieniem zmienności warunków klimatycznych w odległych obszarach, z dala od sieci elektrycznej. Układ słoneczny pompowania jest zbudowany w laboratorium a testy wykazują prawidłowe działanie proponowanego systemu. System pompowania zasilanego energią fotowoltaiczną zrealizowany za pomocą mikrokontrolera Intel 80C196KC. Download fulltext PDF Enhancement of pumping system efficiency depends on optimization of solar energy generation and system consumption. This paper presents an optimally designed and realized solar pumping system which can be used for irrigation, under variation of climate conditions in remote areas, far away from electric grid. The solar pumping system is built at the laboratory level and the tests show correct operation of the proposed system. Streszczenie. Energia słoneczna cieszy się większym zainteresowaniem jako źródło energii dla systemów pompowania wody, szczególnie w odizolowanych regionach. Zwiększenie wydajności pompowania systemu zależy od optymalizacji pozyskiwania energii słonecznej i zużycie energii przez system. W artykule przedstawiono optymalnie zaprojektowany i zrealizowany słoneczny system pompowania, który może być zastosowany do nawadniania, z uwzględnieniem zmienności warunków klimatycznych w odległych obszarach, z dala od sieci elektrycznej. Układ słoneczny pompowania jest zbudowany w laboratorium a testy wykazują prawidłowe działanie proponowanego systemu. System pompowania zasilanego energią fotowoltaiczną zrealizowany za pomocą mikrokontrolera Intel 80C196KC. Słowa kluczowe generator fotowoltaiczny, MPPT, przekształtnik, pompa napędzana silnikiem elektrycznym Introduction The utilization of photovoltaic conversion to power water pumps is today an emerging technology, characterized by gradually declining costs.

In remote areas far away from the electric grid, the use of photovoltaic pumping systems for irrigation is today economically advantageous. Algeria is a large country with the area of about 2.4 millions square km with diverse climatic conditions. Solar energy represents a significant potential in Algeria. Obviously, photovoltaic generators are classified as nonlinear electrical sources since the output power is affected by the weather conditions such as irradiance level and temperature which changes randomly in time. The optimization of the photovoltaic pumping system is based upon the optimization of the power delivered by the photovoltaic generator; this is done by the maximum power point tracking MPPT and the optimization of the induction motor operation which is completed by the application of a nearly constant voltage to frequency ratio control technique. System layout The schematic diagram of the realized photovoltaic pumping system is proposed in fig. 1. As shown in the figure, the system consists of a photovoltaic generator which presents the power supply source. A boost chopper, which is used as an MPPT, connected to a pulse width modulation PWM controlled voltage source inverter, which converts the DC voltage to AC voltage in order to feed the three-phase induction motor. The MPPT control strategy and the inverter PWM switching pattern are implemented in the microcontroller as a program. Fig. 1. Block diagram of PV pumping system Photovoltaic generator A photovoltaic generator consists of a number of modules, formed by the interconnection of photovoltaic cells, connected together in series and parallel to provide the required voltage and current. The generator sizing therefore depends on the connection variability of the modules that constitute the generator and the cells that comprise the modules. Photovoltaic cells convert the solar radiation into electrical energy.

<http://www.drupalitalia.org/node/77779>

The conversion is however limited to the spectrum of solar radiation that can be utilized. Voltage PVG Voltage V PVG Power W In order to optimize the electrical operating conditions of the generator, it is necessary to use a specialized device. This device, maximum power point tracker, consists of a power section and a control section. This means that the converter output voltage can

be simply controlled by the variation of the duty cycle. In order to track the maximum power point of the photovoltaic generator the duty cycle. The inductor value, L , required to operate the converter continuously in conduction mode is calculated such that the peak inductor current at maximum output power does not exceed the power switch current rating. I_{pv} peak-to-peak inductor ripple current. The choice of the converter inductor value and the switching frequency is a compromise between converter efficiency, cost, power capability and weight. V_{out} peak-to-peak ripple capacitor output voltage. These techniques are based on the regulation of the photovoltaic generator output voltage or current according to a reference voltage or current signal, which is either constant or derived from the PV generator characteristics. This kind of MPPT technology simplifies the system control structure to one control loop as shown in fig.5. Fig.5. Block diagram of the MPPT control The control technique flowchart is shown in fig.6. Slope is a program variable with values either 1 or -1 indicating the direction that must follow on the P-D curve in order to increase the output power. While d represents the increment step of duty cycle, which is a constant number between 0 and 1, and P and D . The inverter output voltage is controlled by a sinusoidal pulse width modulation PWM control technique in which a high frequency symmetrical triangular carrier wave is compared to a synchronized sine wave modulating reference wave with the required output frequency.

<http://drbillbaker.com/images/boston-acoustics-pv800-manual.pdf>

The sinusoidal PWM control technique is generated by the microcontroller in such a way that the inverter output voltage-to-frequency ratio is maintained constant. Due to the fluctuation of the maximum input power produced by the photovoltaic generator through the MPPT according to the solar radiation level and temperature, the inverter output power is variable. Fig. 8. PM10CSJ060 inverter internal circuit Induction motor operation To produce a starting torque, and subsequently a running torque, it is necessary to have a current flowing through the rotor winding by short circuiting the winding. Initially the induced e.m.f. from the inverter causes a rotor current per phase I_R to flow through the short circuit, and acts with the flux field to produce the starting torque. The sense of this torque is always to cause the rotor to run in the same direction as the rotating field. The flux field is assumed to revolve at a speed corresponding to the applied stator frequency and the poles of the stator winding. This speed is called the synchronous speed and is given by 5. Nevertheless the terminal voltage can be considered proportional to the product of frequency and the flux. If the voltage is maintained fixed at its rated value while the frequency is reduced below its rated value, the flux will increase. This would cause saturation of the airgap flux. At low frequency the reactance will decrease and the motor current may be too high. Motor operation at S op implies that the input impedance, the power factor, and the motor efficiency are constant. The optimum mechanical speed is given by 11 Centrifugal pump The pump represents the mechanical load of the induction motor and its size identifies the power rating of the other system component. P_{pump} pump efficiency, P_{mech} pump input mechanical power. It can be seen from the figure that the converter losses at the duty cycle 0.5 are higher than any other duty cycle values. Fig 11.

<https://gameanglinginstructors.co.uk/images/boston-acoustics-radio-manual.pdf>

Converter input and output power against the duty cycle. Figure.12 shows the voltage across the converter switch and the current flow during turn off and turns on. The increase and decrease of voltage and current in both commutation modes are spike less which confirm a reduction of converter losses. The inductor current contains minimum ripple as shown in fig13. The power electronics part of the photovoltaic pumping system and their gate driving circuits were optimally designed, realized and tested. Laboratory test results of the whole system were found to agree well with the planned performance. Improvement of photovoltaic pumping systems based on standard frequency converters by means of programmable logic controllers Article Jan 2010 SOL ENERGY Jose Fernandez Ramos L. Narvarte Fernando Poza Saura Photovoltaic pumping systems PVPS based on

standard frequency converters SFCs are currently experiencing a growing interest in pumping programmes implemented in remote areas because of their high performance in terms of component reliability, low cost, high power range and good availability of components virtually anywhere in the world. However, in practical applications there have appeared a number of problems related to the adaptation of the SFCs to the requirements of the photovoltaic pumping systems PVPS. Another disadvantage of dedicated PVPS is the difficulty in implementing maximum power point tracking MPPT. This paper shows that these problems can be solved through the addition of a basic industrial programmable logic controller PLC to the system. This PLC does not increase the cost and complexity of the system, but improves the adaptation of the SFC to the photovoltaic pumping system, and increases the overall performance of the system. However, operation with fixed size perturbations results in a tradeoff between speed of response and maximum power yield in the steadystate.

This paper discusses the use of Fuzzy logic and nonswitching zone schemes for implementing variable size perturbations for improved transient and steadystate responses. Experimental results are then used to verify how the computational burden of each algorithm and the processing speed of a digital signal processor DSP affect the performance of each method in a prototype. The best performance is achieved with a new strategy called nonswitching zones in the VPVIPV plane. The power electronics converter operates with duty cycle D equal to 0 or 1, depending on which nonMPP region the system operates, pushing the operating point the fastest way possible towards the MPP region, for improved transient response. View Show abstract Promotion of renewable energies in Algeria Strategies and perspectives Article Feb 2011 RENEW SUST ENERG REV A. Boudghene Stambouli During the last few years, political support for renewable energies has been growing continuously both at the national and international level and most scientists now agree that the Middle East and North Africa MENA are perfectly placed to play a leading role in the lucrative future solar and wind power industries. The interest for the development of renewable energies was perceived very early in Algeria with the creation of the solar energy institute as soon as 1962. Algeria plays a very important role in world energy markets, both as a significant hydrocarbons producer and exporter, as well as a key participant in the renewable energy market. Due to its geographical location, Algeria holds one of the highest solar reservoirs in the world. This paper deals with a review of the present renewable energy RE situation and assessed present and future potential of RE sources in Algeria. It also discusses the trends and expectation in solar and wind systems applications and the aspects of future implementation of renewable energies making emphasis on the Middle East and North Africa MENA region status.

The problem related to the use of RES and policies to enhance the use of these sources are also analysed in this paper. In addition the available capacity building, the technical knowhow for each RE sources technology and localising manufacturing of RE equipments have been defined. View Show abstract Vector control of an induction motor fed by a photovoltaic generator Article Feb 2003 APPL ENERG Mohamed Arrouf NourEddine Bouguechal With the continuous decrease of the cost of solar cells, there is an increasing interest in photovoltaic PV system applications. Electric motors powered by solarcell generators are one of the most important applications, such as in water pumping systems. This paper investigates a photovoltaicelectro mechanic chain, composed of a PV generator, an impedance adapter DCDC converter, a storage battery and a vector controlled induction machine. The PV generator is forced to operate at its maximum power point by using an appropriate search algorithm, and a balance between battery charge and motor supply is also ensured in all insolation conditions. Simulation results show the effectiveness and feasibility of such an approach. View Show abstract Solar powered induction motordriven water pump operating on a desert well, simulation and field tests Article Apr 2005 RENEW ENERG AbdelKarim Daud Marwan Mahmoud A photovoltaicpowered water pumping system, employing an induction motor pump, capable of supplying a daily average of 50 m³ at 37m head has been developed. This model allows

the representation of motor torque in function of speed and slip at different supply frequencies, as well as the flow rate and efficiency of the system in function of supply frequency and pumping head. Prior to its installation on the desert well, the system performance, in accordance with frequency and head, was thoroughly tested in the laboratory. As illustrated in this paper, simulation and laboratory testing results are well matched.

At constant pumping head, the flow rate is proportional to the supply frequency of the motor. At constant flow rate, the pumping head is proportional to the supply frequency squared only in the range below the peak efficiency of the pump. For higher flow rate values, a special algorithm based on the experimental results could be developed. Higher system efficiency is achievable at higher frequency. It is advisable to operate the motor pump at the nominal frequency, flow rate and head corresponding to maximum efficiency. Longterm field testing of the system shows that it is reliable and has an overall efficiency exceeding 3%, which is comparable to the highest efficiencies reported elsewhere for solar powered pumps. Moraes Duzat Dateifformat zip, Dateien im PDFFormat. Oldenburg, University, Diss., 2000. Computerdatei im Fernzugriff. View Show abstract A modified adaptive hill climbing MPPT method for photovoltaic power systems Conference Paper Jul 2004 Weidong Xiao W.G. Dunford Maximum power point tracking MPPT must usually be integrated with photovoltaic PV power systems so that the photovoltaic arrays are able to deliver maximum available power. In this paper, a modified adaptive hill climbing MAHC MPPT method is introduced. It can be treated as an extension of the traditional hill climbing algorithm. The simulation and experimental results show that the proposed MPPT control can avoid tracking deviation and result in improved performance in both dynamic response and steadystate. View Show abstract A Model of PV Generation Suitable for Stability Analysis Article Fulltext available Jan 2005 IEEE T ENERGY CONVER Yun Tiam Tan D.s. Kirschen Nick Jenkins This paper describes a model of photovoltaic PV generation suitable for studying its interactions with the power system. Experimental results suggest that the maximum power point tracking part of the control system of the PV generator dominates the dynamic behavior of the system.

These experimental results are used to develop and validate the proposed model. It is shown that the model accurately reflects the behavior of the generator following both small and fast changes in irradiance and AC grid voltage. The proposed model is designed to be integrated in a dynamic simulation program. View Show abstract Optimal efficiency analysis of induction motors fed by variable voltage and variable frequency source Article Fulltext available Oct 1992 IEEE T ENERGY CONVER Sheng Chen Sheng Nian Yeh The authors discuss the efficiency analysis and experimental data Based on the simulated Experimental results showed that 10-15% improvement in the efficiency of They are based on the most complete motor models, including such features as rotor skin effect. Furthermore, new solutions for selected harmonic elimination SHE are given. These new solutions come close to EOC. Also, it has been found that EOC solutions although basically load dependent as opposed to SHE do not vary much with the motor used or the motor model applied. Even using a simple RL series circuit as motor model does not change the solutions much. It is found that using the solutions gained from such a simple model is not more than two points off the real optimum based on a very complete motor model. For this definition, the absolute harmonic loss minimum is given as zero points, the overall maximum as 100 points with a linear scale in between. Therefore, one can use one EOC solution for all motors with sufficient accuracy, or, as second best solution, the new form of SHE. Therefore, the EOC solution can be judged load independent. The implementation by microprocessor based systems is as easy for other PWM methods. EOC for three and five switching angles per quarter period is discussed, as well as the new solutions for SHE for up to nine angles.

View Show abstract Show more Advertisement Recommendations Discover more publications, questions and projects in Photovoltaics Project Hybrid solar wind renewable energy systems

Mohamed Arrouf The aim of the project is modeling and simulation of hybrid renewable energy system, for farm domestic use and irrigation in non grid connected area. December 2015 Saad Awad Mohamed Abdelwahab Ali H. Kasem Alaboudy Adel A. Elbaset Matching the onsite induction motor IM pumping loads with the given photovoltaic PV power for the most optimal operation using maximum photovoltaic power tracking MPPT technique with dynamic error driven PI controllers is introduced in this paper. A PV array subjected to constant and variable solar irradiations is designed to feed a water pumping load driven by a 3phase IM. The power conditioning unit is controlled to enforce the maximum power trajectory of the PV array under study. The proposed inverter control selects the suitable operating point for PV voltage, current and power. The main control objective is to run the system as close as possible to the maximum power point operation under constant and variable solar irradiations. Simulation results demonstrate the operation of the unified system with and without controller under constant and variable solar irradiations. The results show that almost the full available power of the PV array is utilized and hence maximum power transfer to the motor is achieved. Based on the given results, the PV powered water pumping systems are feasible without batteries and can provide a cost effective use of the solar energy. This topology is of great concern due its economic issues, especially when a standard frequency converter SFCs with scalar control is used instead of a dedicated PV inverter. It is a low cost solution since it requires no additional power equipment. Modeling and design of each system parts are performed to determine the analytic expression of frequency reference.

The effectiveness of the proposed approach is illustrated by simulations carried out under PSIM Software, and validated through experimental investigations on a 1.5kW laboratory setup. Read more Conference Paper Investigation of photovoltaic water pumping system March 2013 Jayakumar Mathavan Rajini Veeraraghavalu The Impending scarcity of many valuable resources has made the renewable ones to be the main alternative sources nowadays. Solar power is one such reliable alternative which is being used in different ways in a wide spread of the ever so progressing technologies of the world. The standalone system has an advantage over gridtied system in stability issues which makes it more viable to be used for irrigation. Thus an initiative is taken to provide a feasible solution for irrigation at remote locations. In this paper, design and simulation of a water pumping system based on PMDC motor driven centrifugal pump powered by solar energy has been carried out. The performance of the pumping system is analyzed with and without MPPT. Read more Article PV power system based MPPT Zsource inverter to supply a sensorless BLDC motor January 2010 S. A. K. H. Mozafari Niapoor Saeed Danyali M.B.B. Sharifian This paper proposes a new PV power system feeding a sensorless brushless dc motor BLDC driving a water pump. A Zsource inverter ZSI is controlled to extract the maximum power from PV array and supplies the BLDC motor instantaneously. The BLDC motor is driven with variable reference speed dictated from instant maximum PV power by a hysteresis current control loop. Therefore, less number of power switches, less switching losses and lower cost are obtained. By proper designing of control system parameters and maximum power point tracking MPPT method for PV array, good steady state and transient performances have been achieved in response to different operation conditions for PV array. Sensorless drive with low torque ripple is provided for the BLDC motor.

It is highly efficient, low cost and easily controllable for water pumping application. The system characteristics are a predominant requirement for improving the performance. The system responses for different modulation indices are also reported. The characteristics for linear, centrifugal and optimized centrifugal pump load are determined. The experimental validation has been performed by implementing SVPWM employed with perturb and observe peak power tracking algorithm using dsPIC 6010A on a laboratory prototype. Thus, the system behavior proves to be high efficient, low cost and with simple control. Read more Discover more Download citation What type of file do you want. RIS BibTeX Plain Text What do you want to download. Citation only Citation and abstract Download ResearchGate iOS App Get it from the App Store now. Install Keep up with your

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